



p-Link

Switching | Wireless | Security | 4G/5G M2M VPN | Transceiver & Media Converter

Your Link to Business Success

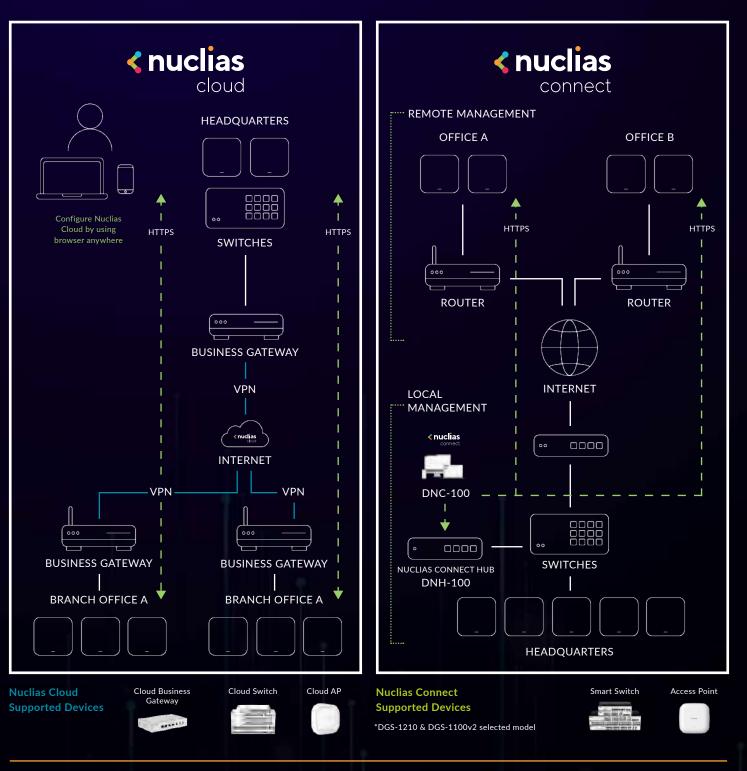
TTT

0000

DD.

D-Link Manageable Network Solution Network Management Your Way





< nuclias

CONVENIENT NETWORK MANAGEMENT

Leverage the power of Nuclias to conveniently & cost-effectively automate, monitor, manage, and scale your wireless network. It's simple and intuitive, and designed to make the scaling process costeffective for Small-to-Medium-sized Businesses (SMBs). Don't waste hours configuring new devices onsite. Don't waste time looking for the right metrics. Nuclias has the flexibility to make onboarding, studying, troubleshooting, and reporting your network activity quick and easy.

CONTROL ACROSS THE NETWORK

Nuclias is an end-to-end solution. Whether you have a small chain of coffee shops, a bustling hotel, or even a college campus to cover, Nuclias offers the enterprise-grade hardware, software, and reliability you need to provide a seamless connected experience – indoors and outdoors.

NUCLIAS IS MADE FOR YOU

Every business is unique, including yours. When it comes to network management, there are two ways for SMBs to approach it – and Nuclias offers a solution for each. Some want simple, worry-free network management that mostly stays out of sight, and just works (Nuclias Cloud). Others are more interested in their infrastructure, and see the value of taking a more active role in network management (Nuclias Connect).

Choose D-Link for more performance, more reliability, more functionality

For over three decades, D-Link has been creating complete, end-to-end networking solutions that deliver just that, and more. With a track record of product innovation and industry-beating growth, D-Link is today a billion dollar company with the scale, the resources, the experience and the expertise that the world's most demanding businesses look for.

How has this been achieved? We make sure we stay really close to our customers' businesses and then, because our R&D resources are geared to fast-track product development, we provide them with early access to the most advanced solutions possible.

It all adds up to state-of-the-art solutions that will really work for your business – D-Link's switching, wireless, security, surveillance, storage and management solutions deliver best-in-class performance. We offer standardised technology with industry leading functionality integrated into highly flexible, highly reliable and highly secure solutions that are easy to implement, at a price you can afford. Who could ask for more?



This is The End of Slow Business

Next-gen connectivity for next-gen businesses

OFDMA











1024-QAM

P

TARGET WAKE TIME





BSS COLORING

We are now entering a whole new high speed internet era, the demand for high speed and density wireless access from users has changed from a good to have to a necessity. Due to this, network performance has become a business-critical requirement. Both staffs and consumers have come to expect a secure, reliable & fast Wi-Fi connection – the absence of which can influence their decision to enter an establishment or to leave.

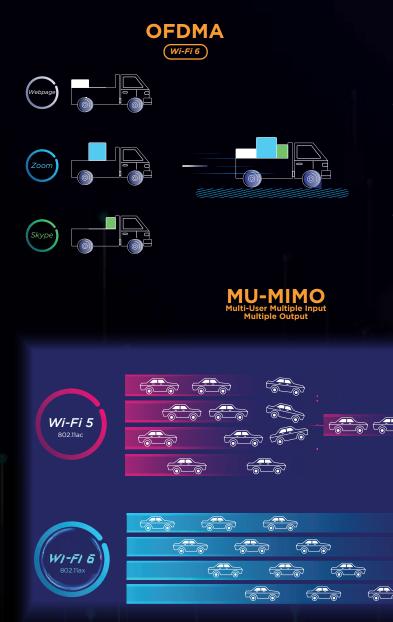
In order to attract and retain customers and employees, companies need to offer secure, reliable Wi-Fi and an amazing experience, or risk losing business. And, to accommodate the growing number of mobile and IoT devices, improvements to the efficiency of a wireless network – and how it handles congestion and ever-increasing capacity demands has become a key factor of success. WIFI 6 provide new technological enhancements that allow for all businesses and users to optimize their performance, especially in high density network environments such as supermarkets, schools, busy offices, and factories where multiple users use multiple devices simultaneously. Designed for operation in both the 2.4 GHz and 5 GHz spectrums, these access points provide more reliable, consistent connections over a longer range. MU-MIMO, OFDMA, and 1024-QAM dramatically reduce latency as well as increase data rate throughput and network capacity. In addition to enhanced security with support for WPA3 Enterprise wireless encryption, the new access points also provide PoE support, Airtime Fairness to efficiently share coverage among clients, and Band Steering for efficient traffic management.





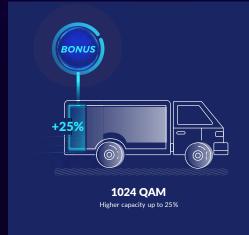
What is Wi-Fi 6?

Wi-Fi 6, also referred to as the 802.11ax protocol, promises to bring blazing wireless connectivity for enhanced user experiences like never before. But aside from the obvious consumer benefits, Wi-Fi 6 is also generating a lot of excitement for IoT environments in many vertical industrial applications. In this paper, we will take a look at 5 key features that enable Wi-Fi 6 to achieve high data rate and low-latency performance in challenging high-density scenarios.



Wi-Fi 6 uses OFDMA, an extension of the OFDM architecture, to improve data-rate efficiency and reduce latency for densely-connected wireless networks, such as IoT environments for Smart industrial applications. OFDMA can significantly boost data throughput and reduce wireless latency by achieving highly-efficient spectral usage across the wireless signal.

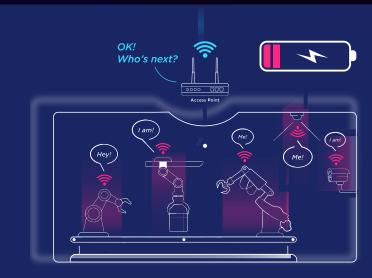
> MU-MIMO, to further reduce network latency and significantly increase wireless network bandwidth. Earlier versions of Wi-Fi 5 used SU-MIMO* (Single User Multiple Input Multiple Output), which only allowed communication with multiple devices in consecutive order, or one at a time. Wi-Fi 6 with MU-MIMO uses multiple spatial streams for simultaneous communication with multiple devices which greatly improve both upload and download performance.



To further facilitate massive amounts of data transfer on the wireless network, Wi-Fi 6 uses 1024 quadrature amplitude modulation (1024 QAM), an improvement from the previous Wi-Fi 5 modulation scheme (256 QAM), to add another 2 bits of data per symbol transmitted (total of 10 bits), enabling Wi-Fi 6 to ensure high quality of service (QoS) for high-traffic venues such as sport arenas, train stations, and convention centers. That's an impressive 25% increase in data rate throughput.



To reduce network congestion and optimize spectral efficiency, TWT enables the access point to schedule communication timeslots for every device on the network, placing all devices in sleep mode except the one device being served during the scheduled time period, significantly reducing network congestion and effectively conserving device battery life. For densely-connected IoT environments, such as wireless sensor networks (WSN) in factory automation, battery conservation is a huge benefit.



Contention-Based Access



Aside from fantastic features to enhance your business Wi-Fi, D-Link also offers a series of cost effective multi-gigabit (2.5Gbps) PoE switches that maximize the bandwidth of Wi-Fi 6 deployment. To minimise wireless interference, the Wi-Fi 6 protocol enables access points to inject 'coloring' information into the data packet when coverag overlap with another BSS is detected, enabling devices to effectively identify and ignore signals from another wireless network. The access point can also change its color if a neighboring BSS access point is using the same color (known as color collision). The access point embeds a blue color element into the data packet, allowing the device to ignore all signals from the overlapping network, effectively eliminating interference.



D-Link Wi-Fi 6 for Your Business

Managing wireless networks for high-traffic locations such as corporate offices, schools, hotels, and shopping centers can be very challenging, even for experienced IT managers and MSPs (Managed Service Providers). In this section, we'll briefly discuss how D-Link Nuclias network management is able to resolve the pain points or concerns for these key business sectors.

1. Enterprise



2. Education



3. Hospitality



4. Retail/SMBs



In fast-paced corporate offices where agile working environments have been adopted, access to high-bandwidth services such as high-definition video streaming and cloud-based applications can happen anytime, anywhere. While Wi-Fi 6 can alleviate many traffic-related network bottlenecking, an agile working environment will still need an agile form of network management to effectively minimize network congestion. Most enterprise networks will also require ample network security measures to protect sensitive company data from unauthorized access.

Wi-Fi connectivity is a must-have for classrooms, and so are access permissions for the various types of users, curriculum, and locations across the campus. In addition to blocking access to unauthorized websites, network administrators should also have the ability to control every aspect of the network, such as activating specific network segments for targeted class sessions and disabling network access for empty classrooms to preserve network bandwidth and prevent unauthorized access.

In addition to smart phones, laptops, and tablets, Wi-Fi 6 will connect more devices in the classroom, including smart watches, gaming consoles, Kindle, Echo, scan markers, and even bandwidth-intensive interactive learning experiences such as AR/VR headsets.

When arriving at a hotel, one of the first things a guest is likely to ask for is the Wi-Fi password. With so many guest devices accessing the wireless network relentlessly looking for the best local attractions, user account management is just as important as bandwidth allocation to keep them reliably connected with seamless handoffs when moving from their room to the downstairs bar, or even to the outdoor pool. For temporary restricted network access, front desk attendants can print vouchers for non-resident guests, granting network access only within a limited time and usage speed to preserve bandwidth, ensuring high quality of service for paying resident guests.

Retail businesses often have multiple locations and individual network maintenance across remote sites will be very time consuming and costly. Businesses should have an efficient centralized platform for remote network management to ensure services such as POS (Point of Sale) terminals, customer service kiosks, and captive portals remain operational to enhance shopper experience. Network downtime can incur significant losses as well as have a negative impact on customer loyalty.

With the arrival of Wi-Fi 6, user experience will be considerably improved across most business scenarios and each will have varying network infrastructures with different application needs. But one common requirement for business networks of any size is the need for an effective management solution to achieve optimised network performance and reliability, which can only be accomplished through real-time monitoring and efficient maintenance with a centralised management platform. And D-Link has a range of network management solutions to help you do just that.

Nuclias Cloud | Nuclias Connect

Cloud managed networking presents the opportunity for businesses to decrease the complexity of deploying and managing the networks they now need. What are the challenges that businesses are faced with traditional network infrastructure, the rise of complexity, and why cloud network management could be the right choice for a range of businesses?

Many organizations aiming to handle additional network strains and cut cost and complexity are looking towards cloud-based network management. Put simply, cloud network management allows a business to centralize its network management for multiple locations through a web interface to a tool they run in a third-party hosted environment, or via a Software-as-a-Service (SaaS) application.



Once core systems are in place, for instance a gateway switch at a branch office or store, the best cloud network management systems enable new devices, such as a wireless access point (AP), to be provisioned, managed, secured and maintained remotely without any IT personnel needing to visit the site.

Nuclias



Find Out More



Connect

Find Out More

Simple, Feature-rich Cloud Networking, As It Should Be.



<complex-block>

At D-Link, we believe that cloud managed networking is the answer to many of the challenges that MSPs face when servicing multiple local businesses, and the IT teams of mid-sized companies. With our new solution, Nuclias, we're delivering into that sweet spot between the excess feature laden high-end and high effort, low value "budget" solutions currently available. We're delivering the visibility, ease of deployment, automation and security that smaller IT teams and MSPs need on tap to be able to do more with less, while future proofing their networks - all at a price pointthat is delivers demonstrable ongoing value.

Nuclias offers truly zero touch provisioning. Access points can be shipped from stock without the IT team needing to pre-configure them – a significant time saving on initial deployment and a boost to service level performance when damaged equipment needs rapid replacement.

Being 100% a cloud based SaaS, Nuclias is highly accessible and offers transparent pricing – no hidden costs or separate bills for cloud hosting and configuration. The service is built on a platform that already supports more than five million devices, backed by a 24/7 multi time zone customer support service.

Designed from the outset for multi-tenant support, Nuclias ensures compliance with the latest data protection and privacy regulations – user traffic is not sent via the cloud service, and security is assured with out-of-band, SSL-encrypted management plane backed with 99.99% uptime service level agreement.

< nuclias

D-Link Network Management Solutions

Digital Transformation is essential to how business is done, and how business is won, and your business needs a stable wireless connectivity foundation on which to build capabilities and competencies in the Internet of Things (IoT), Cloud Operations, and Data-Driven Decision-making. D-Link has been setting the standard in business network infrastructure for over 30 years, partnering with companies at every stage of the growth journey, from home office to multinational, listening to their needs and delivering solutions tailored to every IT budget, and level of IT networking expertise — from novice to expert.



Nuclias Cloud

Nuclias Cloud is a complete solution for Medium-to-Large Enterprises and corporates that don't need or understand, and can't afford a complex IT solution; who want something that stays largely out of the way, and just works. With the Nuclias Cloud Platform, all admin tasks are handled through the Cloud (via Web Browser or App), enabling easy management of remote sites anywhere in the world, while enabling plug-&-play (Zero-Touch) network device deployment, with unlimited scalability. With the technical barriers to expansion removed, and with our 99.9% Service-Level Agreement (SLA) with service continuity backup, Nuclias Cloud removes the hassle & distraction from IT network ownership, so that you can focus on your business.

Nuclias Connect

< nuclias
 connect</pre>

Nuclias Connect is a network management solution for people that prefer a hands-on approach to IT administration and data ownership. It is a software-based solution that enables enterprise-wide network management, at an SMB price. It is comprised of free-to-download management software, license-free Access Points and Switches (up to 1,800), and an inexpensive optional hardware controller complete the offering. The user interface is simple & intuitive, enabling at-a-glance insights across your entire network, and easy automation and reporting, while delivering backwards compatibility with D-Link Access Points already on the market.*





Network management, refreshed.

Automate, monitor, manage and scale your network without the complexity or cost.



Different Solutions for Your Business Needs Nuclias Cloud vs Nuclias Connect



	< nuclias cloud	< nuclias connect
Controller Type	Cloud-Based	Software Controller DNC-100 Hub Controller DNH-100
Scalability (Standard)	Unlimited	Software Controller (up to 1,500) & Hub Controller (up to 100)
Solution Scope	Complete Solution including APs, Switches, PoE and WAN Gateway	Customizable SW / Hub Controller with APs, Switches and PoE
Legacy Device Compatibility	No	Yes (Selected Devices)
Ease of Deployment	Zero-Touch & Tablet App • • • • •	App & Desktop-based Configuration
User-Friendly Interface	Yes	Yes
Technical Expertise Req'd	Low	Low-Moderate
Performance	• • • • •	• • • • •
Target Audience	Medium to Large Enterprises Global, Nationwide and Multi-site	Corporates and Small to Medium Enterprises Nationwide and Multi-site
Pricing	Pay-as-you-Go (Yearly Licensing Fee)	Free Software



D-Link Nuclias: Built for the Future

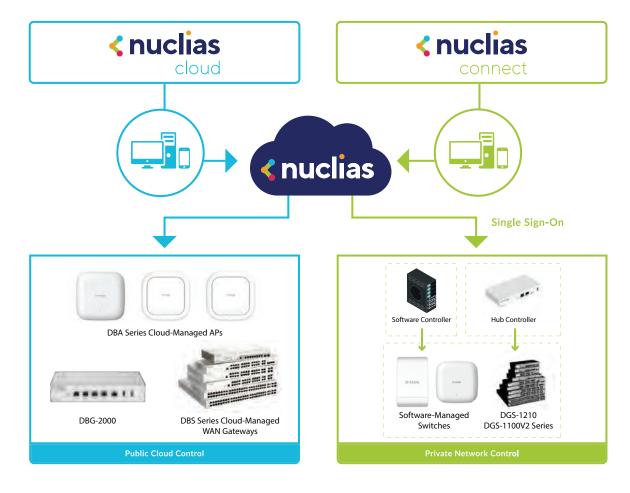
Moving toward the next manageable wireless network era, every company needs a robust Wi-Fi Network Management Solution that can comfortably support the Internet of Things (IoT), datadriven operations, and an increasingly Cloud-based workload. Large enterprises, with their complex IT demands and dedicated technical staff, are well positioned to do this using standard Wireless Controller-based infrastructure. But Small-to-Medium Businesses (SMBs) can find such solutions geeky and impractical, especially if they have multiple sites to cover. They need something simpler, more user-friendly, and more centralized. Enter Nuclias centralized SMB network management solutions, by D-Link, which minimize the time, money, effort, and resources consumed by professional-grade wireless infrastructure. They're built for your present, with an eye on your future.

Nuclias Cloud: Power & Simplicity

Our Nuclias Cloud solution reduces the frustrations and resources of network management by moving it to the Cloud, which greatly expands the power and reach of any organization. Administration can be done for any site or device (Switches, Access Pointsand WAN Gateways), from anywhere in the world. By eliminating the technical barriers to expanding your network, adding a device in any remote location is no more technically burdensome than adding a device centrally. Administration can be done via Web Browser or dedicated App, anywhere with an online connection. Nuclias Cloud provides a tremendous degree of control, while eliminating additional workload for in-house IT personnel (via Zero-Touch Deployment), delivering an easy, low-fuss path to business transformation and centralized management.

Nuclias Connect: Value & Privacy

Nuclias Connect is designed for any organization looking to configure and manage their wireless infrastructure on-premises using existing resources such as (servers/PC) or dedicated onsite appliance (the Hub), for cost or privacy reasons. Nuclias Connect facilitates a greater degree of user-friendly centralized control than traditional Wireless Controllers permit while balancing the functionality needs of many businesses for privacy. By eliminating the need for additional software licensing, an SMB or MSP can build a single virtual network (composed of up to 1,800 devices) across different sites and geographies. Nuclias Connect also allows network deployment decisions to be driven more by need, and less by cost, while its intuitive dashboard makes it easier to understand the challenges facing your network and its users.



NUCLIAS CLOUD

WI-FI 6

nuclias cloud

Complete cloud-managed networking solution for small to large-sized organisations with one or more sites.

Cloud-Managed Access Points Now with Wi-Fi 6

With next-generation Wi-Fi 6 dual-band concurrent 2.4 GHz and 5 GHz radios, the DBA Business Cloud Access Points are best-in-class indoor and outdoor access points designed specifically for enterprise environments.

Offering high combined data rates to wireless clients and designed as a zero-configuration, pre-managed access point for the Nuclias cloud, DBA Business Cloud Wi-Fi 6 access points allow for High density lightningfast access to bandwidth-intensive applications such as data, voice, and video streaming concurrently.

DBA Business Cloud Wi-Fi 6 Access Point Highlights:

D-Link Wi-Fi 6 AC Access Point

- Up to 3600 Mbps with 4 x 4 MU-MIMO with four spatial streams
- Supports MU-MIMO (download & upload), beam forming and load balancing
- Supports OFDMA 1024 QAM TWT Target Wake Time BSS Colouring

Simplified deployment, enabling installation into an existing network infrastructure

- Integrates Multi-gig 2.5Gbps PoE Ethernet LAN port
- Zero-touch provisioning, AP can be provisioned before deployment

Revolutionary Energy Efficiency

Innovative D-Link Green features helps conserve energy without affecting performance

Nuclias Cloud: Cloud-Managed Access Points

	Model	DBA-1210P	DBA-1520P	DBA-2520P	DBA-2620P	DBA-2720P	DBA-2820P	DBA-X1230P	DBA-X2830P	DBA-3620P	DBA-3621P
	Product Image	•	eg .					WI-FI 6	WI-FI 6		Ŷ
	Environment	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor
	IEEE Standard	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac/ax	IEEE 802.11a/ b/g/n/ac/ax	IEEE 802.11a/ b/g/n/ac Wave 2	IEEE 802.11a/ b/g/n/ac
General	WiFi Speed	AC 1300	AC 1750	AC 1900	AC 1300	AC 2100	AC 2500	AX1800	AX3600	AC 1300	AC1300
	2.4 GHz Speed	400Mbps	450Mbps	600Mbps	400Mbps	400Mbps	800Mbps	575Mbps	1147Mbps	400Mbps	400Mbps
	5 GHz Speed	867Mbps	13007Mbps	1299Mbps	867Mbps	867Mbps+ 867Mbps	1733Mbps	1200Mbps	2402Mbps	867Mbps	867Mbps
>											
Functionality	Number of SSIDs	16 per device 8 per band	16 per device 8 per band	16 per device 8 per band	16 per device 8 per band	24 per device 8 per band	16 per device 8 per band	16 per device 8 per band	16 per device 8 per band	16 per device 8 per band	16 per device 8 per band
PoE	PoE Budget	802.3af	802.3at	802.3at	802.3at	802.3at	802.3at	802.3at	802.3at	802.3at	802.3at
Physical	Ethernet Interface	1 x 10/100/1000 Ethernet Port with PoE	1 x 10/100/1000 Ethernet Port with PoE	2 x 10/100/1000 Ethernet Ports with PoE (1 only)	1 x 10/100/1000 Mbps Ethernet Ports with PoE	1 x 10/100/1000/ 2500Mbps Ethernet port with PoE; 1 x 10/100/1000 Mbps Ethernet port	2 x 10/100/1000 Ethernet Ports with PoE	1 x 10/100/1000 Mbps Ethernet Ports with PoE			
	Max Output Power	2.4GHz: 20dBm 5GHz: 20dBm	2.4GHz: 22dBm 5GHz: 26dBm	2.4GHz: 25dBm 5GHz: 25dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 23dBm 5GHz: 22dBm	2.4GHz: 29 dBm 5GHz: 28 dBm	2.4GHz: 26dBm 5GHz: 26dBm	2.4GHz: 26dBm 5GHz: 26dBm
Technical Specification	Antenna	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional	Internal Omnidirectional (Optional External Antenna)	External Omnidirectional
chnical Sp	Mounting Type	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Wall/Pole
Teo	Security Lock	Yes		Yes	Yes	Yes	Yes	Yes			
	IEC60601-1-2			Yes	Yes	Yes	Yes		Yes	Yes	

Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries. All other trademarks belong to their respective owners. ©2023 D-Link Corporation. All rights reserved. E&OE.

*Please contact your local D-Link office for availability.



Nuclias Cloud Switches

The Nuclias Cloud-Managed Switches offer a robust set of Layer 2 and Layer 2+ features designed to support the most demanding applications.

Extensive range to meet the networking needs of businesses of all sizes with a range of port configurations from 10-52 ports. L2/L2+ features help to optimise and improve network efficiency. Optional PoE models that support PoE/ PoE+ with high PoE power budgets. Combo fibre ports provide additional flexibility on choice and distance the switches can be connected.

D-Link Switch Highlights:

- Simultaneous/scheduled firmware upgrade and configuration push
- Customisable network reports
- Alert when a switch or port goes offline
- Switches can be configured through the Nuclias cloudplatform for:
 - IPv4 ACL for network resource management and control
 - Access policies for port/MAC-based network security
 - Port scheduling allows you to enable/disable port based on time schedule
 - Switch port configuration including VLAN, role, PoE, mirroring

		-					n-matrix error and dette
	MODEL	DBS-2000-10MP	DBS-2000-28	DBS-2000-28P	DBS-2000-28MP	DBS-2000-52	DBS-2000-52MP
	Number of Gigabit ports	8	24	24	24	48	48
	Number of Combo 1000BASE-T/SFP ports		4	4	4	4	4
	Number of SFP ports	2					
	Switching capacity	20 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps
HARDWARE	PoE standards	802.3af, 802.3at		802.3af, 802.3at	802.3af, 802.3at		802.3af, 802.3at
DX D	PoE power budget	130 W		193 W	370 W		370 W
HAF	PoE capable ports	Ports 1-8, up to 30 W		Ports 1-24, up to 30 W	Ports 1-24, up to 30 W		Ports 1-48, up to 30 W
	Time-based PoE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Fanless	\checkmark	\checkmark			\checkmark	
	802.3az EEE	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Power supply type	Internal	Internal	Internal	Internal	Internal	Internal
	MAC address	8K	8K	8K	8K	16K	16K
L2	802.1D STP, 802.1w RSTP	•	•	•	•	•	•
	802.3ad link aggregation	•	•	•	•	•	•
VLAN	VLAN group (max static)	256	256	256	256	256	256
۲	Port-based VLAN, Voice VLAN	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Σ	SSL	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
SECURITY	ACL	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
SE	Port security	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Cloud-Managed Smart Gigabit Switches

* Coming soon

Nuclias Cloud Business Gateway

Cloud Business Gateway for a complete Nuclias solution

Centralized control functionality to securely and intelligently direct traffic across the WAN & Support intuitive Site-to-Site VPN, Application identification and control, and Web Content Filtering for secure connections.

Software-defined solutions are evolving network operations in this era of digital transformation, D-Link Nuclias Cloud Business solution helps IT administrators to simplify branch network deployment. With the variety of optimization design for internet connectivity and allows enterprises to leverage any combination of transport services – including MPLS, LTE and broadband internet services – to securely connect users to applications.



DBG-2000 Cloud-Managed Business Gateway

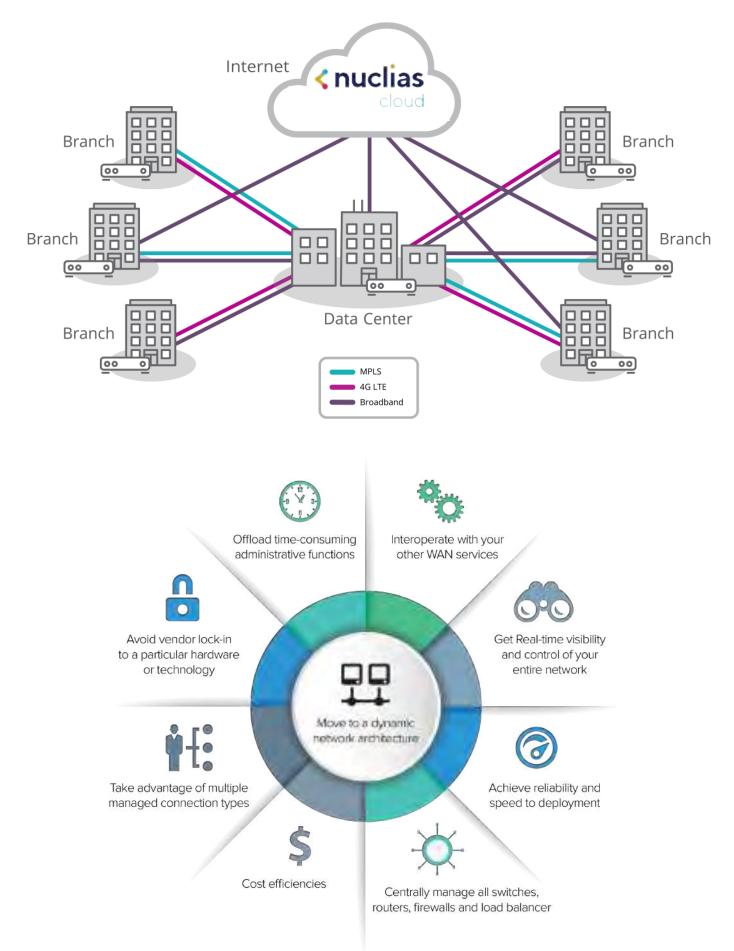
- x86 Quad-cores CPU
- DDR3 2GB memory
- 4*10/100/1000Mbps ports, 2* USB ports, 1 RJ-45 console port
- Firewall/NAT throughput: 1.8Gbps
- IPsec VPN throughput:450Mbps, IPsec VPN tunnel: 100
- SSL VPN throughput: 200Mbps
- Current session: 200,000
- Multiple WAN/Configurable interfaces
- DPI Firewall
- VPN Server/Client for secure communications
- PPPoE/PPTP/L2TP/DHCP
- Bandwidth Management
- Static/Policy-based routing
- VLAN for network segmentation
- Application identification/Control
- Web Content Filtering
- IDP (Intrusion Detection & Prevention)



DBG-X1000 Cloud-Managed Wi-Fi 6 Business Gateway

- x86 Quad-cores CPU
- 802.11ax 2*2 dual band (AX1800)
- 1* WAN GbE port, 3*LAN GbE port, 1* LAN/WAN configurable GbE port, 1* USB port, 1*RJ45 console port
- Firewall/NAT throughput: 950Mbps
- IPsec VPN throughput: 150Mbps, IPsec VPN tunnel: 50
- SSL VPN throughput: 50Mbps
- Current session: 50,000
- Multiple WAN/Configurable interfaces
- DPI Firewall
- VPN Server/Client for secure communications
- PPPoE/PPTP/L2TP/DHCP
- Bandwidth Management
- Static/Policy-based routing
- VLAN for network segmentation
- Application identification/Control
- Web Content Filtering
- IDP (Intrusion Detection & Prevention)

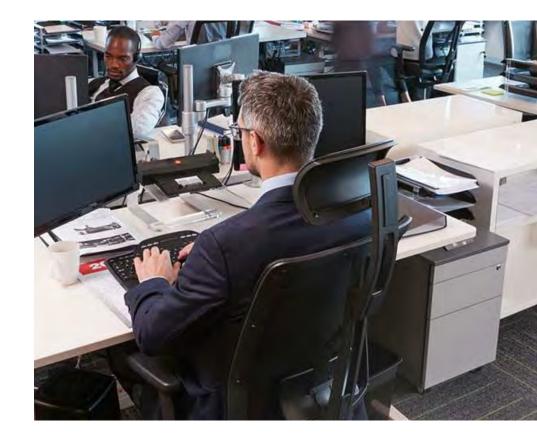
Nuclias Cloud Architecture



NUCLIAS CONNECT



Nuclias Connect is the ideal centralised network management solution for Small-to-Medium Enterprises (SME) and corporate networks. Nuclias Connect makes it easier to analyse, automate, configure, optimise, scale, and secure a network – delivering the convenience of an Enterprise-grade management solution, at the affordable price.





Customize and secure your network, intuitively

Nuclias Connect is a solution that makes your network easier to manage, easier to configure, and easier to expand. It empowers your network administrators through its centralized control, configuration, and customization capabilities, while minimizing their onsite workload. Nuclias Connect analytics provide an understanding of network and its usage that is robust and intuitive, while minimizing your upfront investment through its legacy compatibility and free-to-download software – it's maximum control with minimum hassle.

Who Needs Nuclias Connect?

SME and Corporates

Connect offer a robust yet affordable foundation for corporates and SME's who acknowledge the need for Digital Transformation in order to stay competitive. Especially designed for those business that need fine-grained control over their network, as well as the ability to customize as to best meet their businesses unique needs.



Retail Chains

Real time traffic analytics and insights help you tailor your customers Wi-Fi experience and further drive sales. Features such as customizable captive portal maintain secure and easy to access Wi-Fi and also enables multichannel marketing. Meanwhile, a powerful PoE (Power-over-Ethernet) can simplify the deployment of advanced surveillance, smart sensors / alarms, access control, digital signage and point of sale (POS) devices for Smart Retail.



< nuclias

connect

Hospitality

Create a secure and easy to access wired (switches) and Wi-Fi environment with features such as a customizable captive portal to enable multi-channel marketing. Real time traffic and analytics, virtualized floor maps and mapping of customer foot-print gives deeper insights and aids you to better understand guest behaviors.



Education

Connect offers versatile deployment and support for multiple campuses. Network enhancing features such as airtime fairness and channel optimization that enables stable digital collaboration. Web content filtering and application control protects staff and students alike. Resource intensive applications such as digital white boards or surveillance are supported.

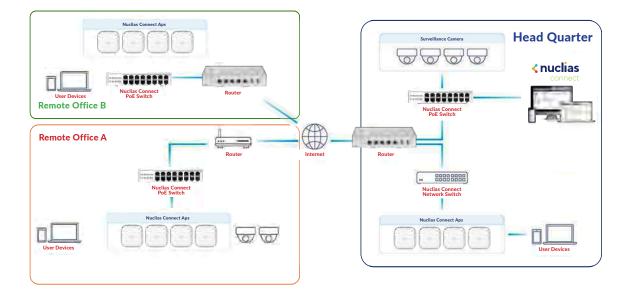


Nuclias Connect for MSPs

Nuclias Connect allows network administrators to do their jobs far more effectively and efficiently. Network expansion and configuration are easier, more intuitive, and more cost-effective thanks to centralized control. Privilege-Based Access Control allows managed access, avoiding accidental or malicious misconfigurations.

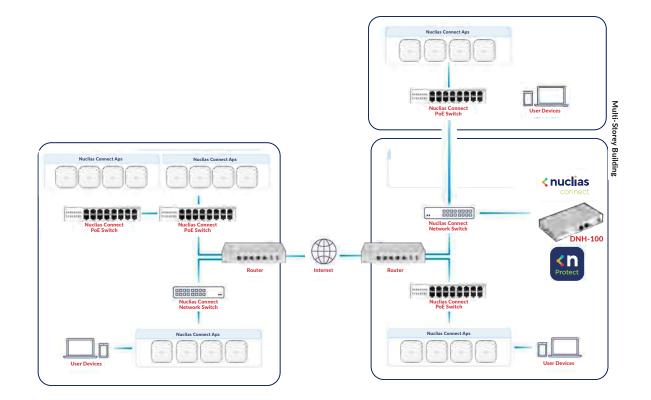
Multi-Site Nuclias Connect deployment

(Up to 1,800* wireless access points and switches)



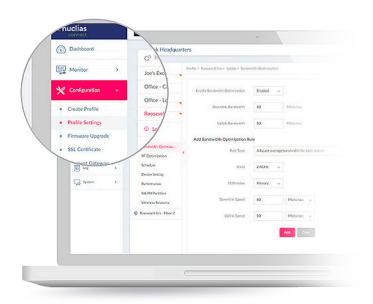


(Up to 200* wireless access points and switches)



* Maximum number of managed devices is subject to hardware configuration of the server, user environments and settings of the devices.





Value

- Free downloadable Nuclias Connect Software Controller (DNC-100)
- Free license for Access Points and Switches
- Cost-effective Hub Controller (DHH-100)
- Up to 1,500 managed Nuclias Connect Access Points and Switches
- DGS-1210 & DGS-1100V2: Nuclias Connect support with free firmware upgrade



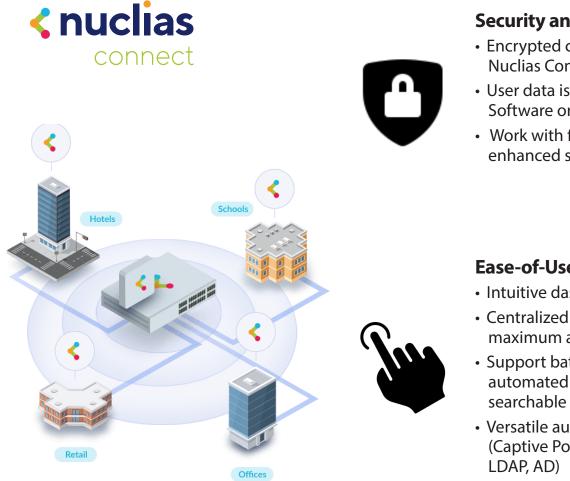
Flexibility

- Suitable for single or multi-site businesses across various industries
- Support wide range of Access Points, Data and PoE Switches
- Highly customizable dashboard of reporting and analytics
- Network management from anywhere at anytime



Real-time Analytics and Reporting

- Comprehensive traffic analytics and status reports
- Visibility of the networks enables actionable intelligence by the businesses
- Easy troubleshooting with insights into users and devices' physical interfaces



Security and Privacy

- Encrypted communications over Nuclias Connect
- User data is stored locally in Software or Hub Controller
- Work with firewalls with enhanced security

Ease-of-Use

- Intuitive dashboard functionality
- Centralized configuration with maximum accuracy
- Support batch configuration, automated reporting, searchable logs
- Versatile authentication options (Captive Portal, RADIUS, POP3,

Nuclias Connect Apps

Monitor and manage the remote networks on iOS and Andriod mobile devices



Timely Network Monitoring



Remote Troubleshooting





Easy Reporting



Key Features of Nuclias Connect (DNC-100 and DNH-100)



Nuclias Connect Hub Controller (DNH-100)

A compact and cost-effective Hub Controller with built-in Nuclias Connect software server

- Manage up to 100 Wireless Access Points (APs) and Switches
- Fully equipped with a Gigabit LAN Port, a USB 3.0 Port, and a Micro SD Slot
- Auto managed frequency bands and L2/L3 AP discovery with the best wireless coverage
- Greater control with multiple VLANs and SSID management
- Single Sign-On
- Command Line Interface (CLI) support
- NAT Passthrough for multi-site deployment



* Available Q4, 2019



< nuclias connect

A free network management software with robust functionality, highly scalable, and end-to-end control.

		(TE) -		802.11ac Wave 2	802.11ac Wave 2
	MODEL	DIS-2650AP	DIS-3650AP	DAP-2610	DAP-2662
	Hoptspot 2.0 compatible				•
	Wireless standards	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	802.11n 11ac Wave 2	Simultaneous a/n/ac and b/g/n
	Wireless	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	AC1200 (AC Lite)	802.11n 11ac Wave 2
	Maximum wireless speed	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	AC1200 (AC Long Range LR)
	МІМО	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	•
VARE	Antenna type	2 external omni-directional	2 external omni-directional	2 embedded omni-directional	4 embedded omni-directional
HARDWARE	Antenna gain	2.5 dBi for 2.4GHz 3 dBi for 5GHz	3 dBi for 2.4GHz 5 dBi for 5GHz	3 dBi for 2.4GHz 3 dBi for 5GHz	3 dBi for 2.4GHz 4 dBi for 5GHz
	Power-over-Ethernet (PoE)	• (802.3at)	• (802.3at)	• (802.3af)	• (802.3af)
	Wired interface	2 x Gigabit 1 GE PoE + 1 GE	1 x Gigabit	1 x Gigabit	1 x Gigabit
	High Power	•	•		
	Type of housing	Metal	Metal	Plastic	Plastic
	Outdoor housing (IP rating)	IP3X, DC IN design	IP67		
	Maximum number of SSIDs	16	16	16	16
	Multiple modes (AP, WDS with AP, WDS / bridge, client)	•	•	•	•
WIRELESS	WMM-PS/802.11e (U-APSD)	•	•	•	•
WIRE	Wi-Fi scheduler	•	•	•	•
	AP traffic load balance	•	•	•	•
	L2 roaming	•	•	•	•
	WEP/WPA/WPA2-Per./Ent.	•	•	•	•
~	TKIP/AES encryption	•	•	•	•
ECURITY	WLAN partition, Station Isolation	•	•	•	•
SEC	SSID broadcast disable	•	•	·	•
	MAC address filtering	•	•	•	•
	802.1X authentication	•	•	•	•
NETWORK	DHCP server	•	•	•	•
JET M	802.1D STP, IGMP snooping, ARP spoofing, SNTP	•	•	·	·
		•	•	•	•
E.		•	•	•	•
MEN	SNMP (v1, v2c, v3)	•	•	•	•
MANAGEMENT	CLI, Telnet, SSH	•	•	•	•
MAN	Syslog Central management through	•	•	•	•
2	Nuclias Connect*	•	•	•	•



802.11ac Wave 2			G	802.11ac Wave 2		
DAP-2680	DAP-2682	DAP-X2810	DAP-X2850	DAP-3666	DAP-2620	DAP-2622
				•		
Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n/ac/ax and b/g/n	Simultaneous a/n/ac/ax and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac and b/g/n
802.11n	802.11n	802.11AX	802.11AX	802.11n	802.11n	802.11n

(Wave 2) and b/g/n	a/n/ac and b/g/n	a/n/ac/ax and b/g/n	a/n/ac/ax and b/g/n	a/n/ac and b/g/n	(Wave 2) and b/g/n	a/n/ac and b/g/n
802.11n 11ac Wave 2	802.11n 11ac Wave 2	802.11AX Full OFDMA	802.11AX Full OFDMA	802.11n 11ac Wave 2	802.11n 11ac Wave 2	802.11n 11ac Wave 2
AC1750 (AC PRO)	AC2300 (AC High Density HD)	AX1800	AX3600	AC1200 (Outdoor)	AC1200 (Outdoor)	AC1200 (Outdoor)
• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	•	• (MU-MIMO)	300 Mbps - 2.4 GHz
3 embedded omni-directional	4 embedded omni-directional	4 embedded omni-directional	4 embedded omni-directional	4 embedded omni-directional	2 embedded omni-directional	.(MU-MIMO)
3.6 dBi for 2.4GHz 4.2 dBi for 5GHz	4 dBi for 2.4 GHz 6 dBi for 5 GHz	3 dBi for 2.4 GHz 4 dBi for 5 GHz	3.5 dBi for 2.4 GHz 5.5 dBi for 5 GHz	6 dBi for 2.4GHz 6 dBi for 5GHz	3.4 dBi for 2.4GHz 4.22 dBi for 5GHz	"2 embedded omni-directional"
• (802.3at)	• (802.3at)	• (802.3at)	• (802.3at)	• (802.3af)	• (802.3af)	2 dBi for 2.4 GHz 2 dBi for 5 GHz
1 x Gigabit	2 x Gigabit	1 x Gigabit	1 x 2.5 Gbps LAN (PoE), 1 x Gigabit	2 x Gigabit	1 x Gigabit	(802.3at)
						1 x Gigabit (PoE In) 1 x Gigabit (PoE Out) 1 x Gigabit
Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	•
				• (IP68)		Plastic
16	16	16	16	16	16	16
•	•	•	•	•	•	•
•		•	•	•		•
•	•	•		•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
	•	•	•	•	•	•
•	•	•	•	•	·	•
•	•	•	•	•	•	•
•	•	•	•	•	·	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
	•	•	•	•	•	•
•	•	•	•	•	•	•

* Compatibility with Nuclias Connect through firmware update.

Nuclias Connect Switches: DGS-1210(HW:F) & DGS-1100V2

Revamp your corporate networks with Nuclias Connect

DGS-1210 (HW: F) Series L2+ Smart Gigabit Switches

LAYER 3

• Static and Inter-VLAN Routing

PERFORMANCE

- VLAN | QoS
- Link Aggregation (LACP)
- Auto Surveillance and Voice VLAN
- Up to 16K MAC Address Table

SECURITY

- Access Control List (ACL)
- IP-MAC-Port Smart Binding (IMPB)
- D-Link Safeguard Engine

REDUNDANCY

- Dual Software Images
- Dual Configuration Files

MANAGEMENT

- Nuclias Connect | SNMP
- CLI | Web GUI
- Surveillance Mode (for PoE)

DGS-1100V2 Series L2 Smart Gigabit Switches

PoE++

802.3bt 90W

PERFORMANCE

- VLAN | QoS
- Link Aggregation (LACP)
- Auto Surveillance and Voice VLAN
- Up to 8K MAC Address Table

SECURITY

• D-Link Safeguard Engine

REDUNDANCY

- Nuclias Connect | SNMP
- Web GUI



H

H

THE OTHER



Nuclias Connect Smart L2+ Gigabit Switches: DGS-1210 (HW:F)

NUCLIAS CONNECT 29



Nuclias Connect Smart L2 Gigabit Switches: DGS-1100V2 Cost-effective 802.3bt 90W PoE++ Switches

DGS-1100-10MPV2



Port Count: 8 GE POE + 2 SFP Fan: 1 Smart Fan 802.3af/at (15.4W, 30W): Port 1 ~ 8 PoE Power Budget: 130W

DGS-1100-16V2



Port Count: 16 GE Fan: Fanless

DGS-1100-10MPPV2



Port Count: 8 GE PoE + 2 SFP Fan: 1 Smart Fan 802.3af/at (15.4W, 30W) : Port 1 ~ 8 802.3bt (90W): Port 7 ~ 8 PoE Power Budget: 242W

DGS-1100-18PV2



Port Count: 16 GE PoE + 2 GE/SFP Combo Fan: 1 Fan 802.3af/at (15.4W, 30W) Port 1~16 PoE Power Budget: 130W

DGS-1100-26MPV2

Port Count: 24 GE PoE + 2 GE/SFP Combo Fan: 1 Smart Fan 802.3af/at (15.4W, 30W): Port 1 ~ 24 PoE Power Budget: 370W

DGS-1100-24V2



Port Count: 24 GE Fan: Fanless

DGS-1100-26MPPV2



Port Count

24 GE PoE + 2 GE/SFP Combo Fan: 1 Smart Fan 802.3af/at (15.4W, 30W): Port 1 ~ 24 802.3bt (90W): Port 21 ~ 24 PoE Power Budget: 525W

DGS-1100-24PV2



Port Count: 12 GE PoE + 12 GE Fan: Fanless 802.3af/at (15.4W, 30W) Port 1~12 PoE Power Budget: 100W

Unified WIFI Solution

Lite Wireless solution for your Business

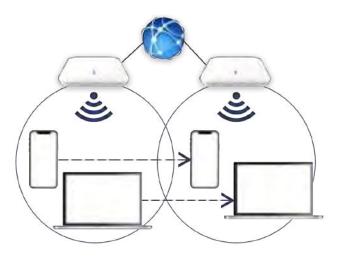
The D-Link Unified WIFI series devices provide a single, Lite solution to configure, manage and support SMB wireless networks, with a range of WIFI 6 and WIFI 5 Access point, Unified WIFI solution is best for SMB, SOHO, Hotel, school and chain store wifi deployment.

Unified WIFI also comes with central management hardware – AC controller which not only provide central wifi management but also gateway which help to reduce deployment cost for new businesses network setup that required gateway. These high capacity wireless controller is ideal for businesses who want to offer services such as voice over Wi-Fi, IP-based video, secure enterprise access and tiered Wi-Fi services in venues.

Multi-WAN gateway with user traffic control MultiWAN connectivity for multiple ISP, allow load balance & WAN failover. User behavior control can maximize network performance by restricting some application from hogging the network bandwidth







Seamless Roaming

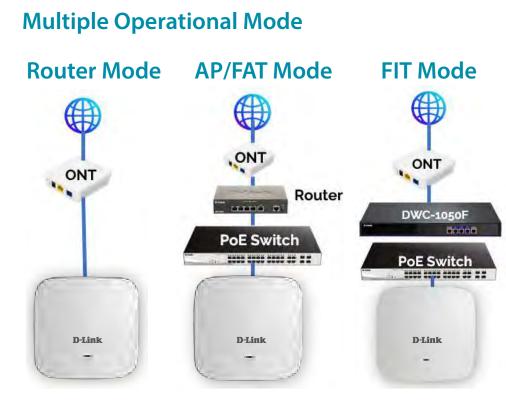
Seamless WiFi Roaming provides a constant connection of the mobile users (smartphones, tablets, laptops) during their movement within the area covered by several access points.

When moving within the WiFi network, client independently selects the most suitable AP based on the signal level, network load and other factors.

Multi Operation Access Point

(Unified Series Access point comes with multiple) Operation mode, FAT/FIT/ Router mode. For user who doesn't require central management, they can configure it as Standalone AP (AKA FAT Mode) or router mode, for those who needs central management, they can use Easy wifi AC controller to managed multiple APs under FIT mode.

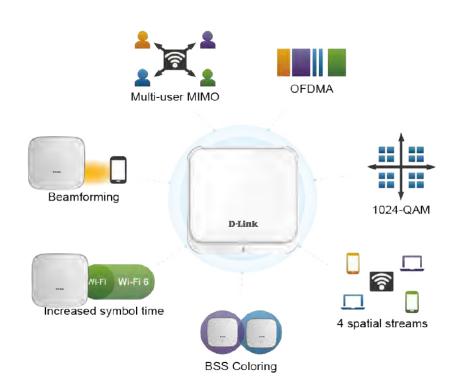
Application



Latest WIFI 6 Technology

WIFI 6 FOR BUSINESS AND HOME OFFICE

The future of WiFi is here. With WiFi 6 Access Points from D-Link Easy WIFI, you get the ultimate speeds and efficiency that you need to make the most out of WiFi 6 devices.





SOHO/Home

Seamless Roaming with AC





Unified WIFI Access Points Series

AX3600



DAP-X1851F

- Indoor AX3600 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 600Mbps + 1200Mbps
- Dual 2.5GE (LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- DL/UL MUMIMO
- OFDMA/BSS Coloring/TWT/1024QAM
- PoE/Power ADP (12V/2A)

AX3600



DAP-X1825F

- On-wall AX3000 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 600Mbps + 2402Mbps
- 1 GE WAN/LAN PoE In + 1 GE Passthrough (Back)
- 3 GE LAN + 1 GE PoE out + 1 GE Passthrough (Bottom)
- 1 RJ45 Console (Side)
- PoE Out Max 15W
- USB2.0 Port for charging
- Support NAT/FAT/FIT Mode
- DL/UL MUMIMO
- OFDMA/BSS Coloring/TWT/1024QAM
- PoE/Power ADP

AX1800



DAP-X1810F

- Indoor AX1800 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 600Mbps + 1200Mbps
- Dual GE (LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- DL/UL MUMIMO
- OFDMA/BSS Coloring/TWT/1024QAM
- PoE/Power ADP (12V/1A)

AX1800



DAP-X1820F

- On-Wall AX1800 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 600Mbps + 1200Mbps
- 4 GE (3*LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- DL/UL MUMIMO
- OFDMA/BSS Coloring/TWT/1024QAM
- PoE/DC input

AX1800



DAP-X1830F

- Outdoor AX1800 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 600Mbps + 1200Mbps
- Dual GE (LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- DL/UL MUMIMO
- OFDMA/BSS Coloring/TWT/1024QAM
- IP65 Weatherproof
- PoE/Power ADP(12V/1A)

Unified Access Points Series



DAP-1610F

- Indoor AC1200 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 300Mbps + 867Mbps
- Dual GE (LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- MU-MIMO
- PoE/Power ADP

D-Link

DAP-1620F

• On-WALL AC1200 (2x2)

.0

- Indoor AC1200 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 300Mbps + 867Mbps
- Dual GE (LAN + WAN)
- Support NAT/FAT/FIT Mode
- MU-MIMO
- PoE



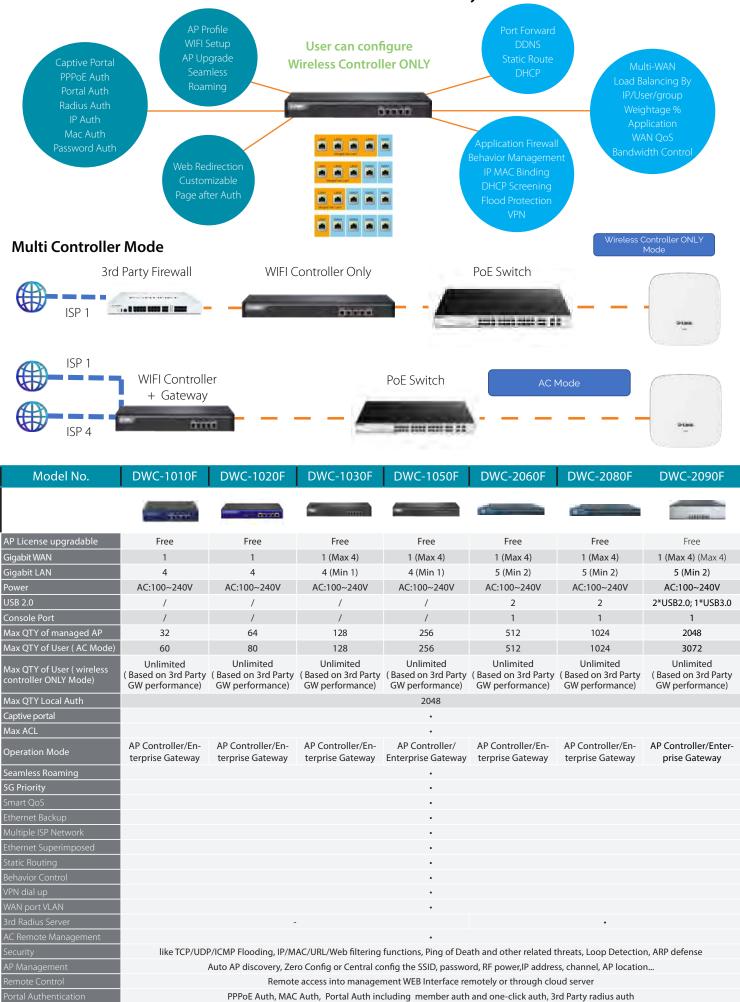
DAP-1630F

- Outdoor AC1200 (2x2)
- Dual Bands 2.4GHz + 5GHz
- 300Mbps + 867Mbps
- Dual GE (LAN + WAN/LAN)
- Support NAT/FAT/FIT Mode
- MU-MIMO
 - IP65
 - PoE/Power ADP

D-Link _____

Unified WIFI AC Controller Features Highlight

Wireless Controller + Gateway



33







TOTAL NETWORK SWITICHING SOLUTIONS

Multi-Gigabit | Manageability | PoE

Building a digital & future proof Enterprise Network Next-Gen Connectivity for Next-Gen Business

Data center switch

L3 manageable Switch

Smart L2 Switch

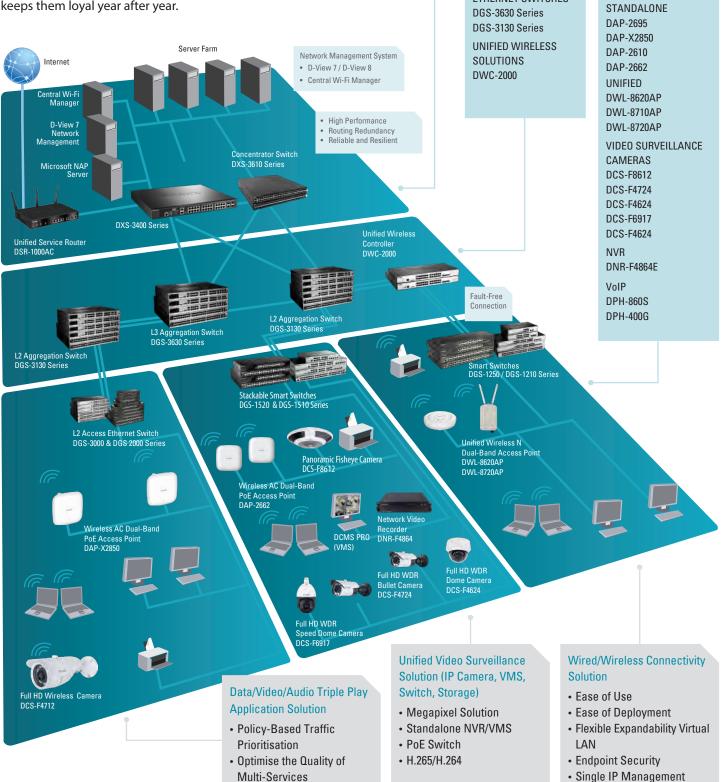
Industrial Switch

PoE Switch 250M PoE Switch

Your Link to Business Success

D-Link Total Network Solutions

D-Link is a global leader in providing network connectivity solutions for a range of businesses. From the beginning, D-Link engineers have researched, designed and manufactured innovative, standards-based networking solutions that provide our customers with secure, reliable, easy to manage high-performance networks. We sell our state-of-the-art hardware at the best prices, and even though price may be the deciding factor for many new customers, D-Link's innovation, reliability and service keeps them loyal year after year.



Core Network LAYER 3 CORE ETHERNET SWITCHES DXS-3400 Series DXS-3610 Series Access Network

ETHERNET SWITCHES

LAYER 2 ACCESS

DGS-3000 Series

DGS-2000 Series

DGS-1520 Series

DGS-1510 Series

DGS-1250 Series

DGS-1210 Series

WIRELESS ACCESS

SMART SWITCHES

Aggregation Network LAYER 2 / LAYER 3

ETHERNET SWITCHES

AGGREGATED

High-Speed **10 Gigabit** Network Solutions



Layer 2/3 10G Switches (DXS-1100 Series, DXS-1210 Series, DXS-3400 Series, DXS-3610 Series)

From entry level Layer 2 smart switches with intuitive and easy-to-use GUI to Layer 3 fully managed 10G switches that support physical stacking and expansion module, whether you are managing a small network with a few 10G links, or a large Enterprise network with 10G links throughout, D-Link has the right switch for you.

DXS-3610 Series

Fully managed Layer 3 Managed Switches, designed for Top-of-the-rack deployment with expansion module for additional 1G, 10G or 40G ports.

DXS-3400 Series

Layer 3 Lite Managed Switches support physical stacking up to 4 units, hot-swappable power module and fan modules.

DXS-1210 Series

Layer 2 Web Smart Switches for businesses of all sizes requiring essential L2 switching functionality and advanced security features.

DXS-1100 Series

Layer 2 Lite Entry level Smart Switches with intuitive and easy-to-use Graphical User Interface.



10G SFP+ Optical Transceivers (DEM-43X Series)

D-Link's 10G SFP+ Transceiver series are hot-swappable SFP+ transceivers that plug into SFP+ slots on switches and support 10G Ethernet. They offer customers a wide variety of 10G Ethernet connectivity options (10GBASE-SR/LR/LRM/ER/ZR) for data centers, enterprise wiring closets, and service provider transport applications.

10G Network Cables (Cat 7 F/FTP, Cat 6A FTP/UTP Cables)

High quality cables, comply to International standard to ensure reliable infrastructure for your building, data centres, offices and campus data communication.

Cat 6a – support 10GBase-T up to 100 meters

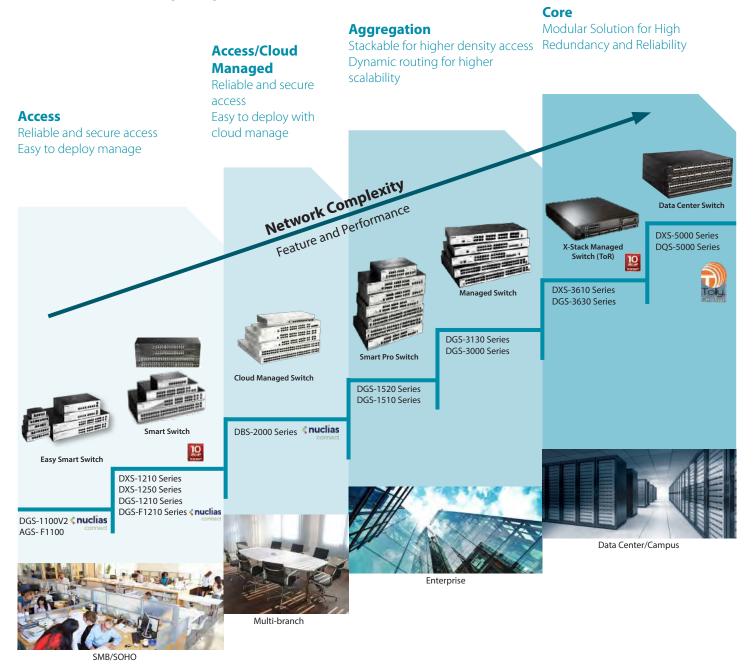
Cat 7 – support 10GBase-T up to 100 meters with strict specifications for crosstalk and system noise



4 SWITCHES FOR EVERY NETWORK

The Right Switch For Your Business

D-Link offers a comprehensive suite of business class switches that provide the foundation for a full range of high-value network solutions



Building a Digital Future proof Network with D-Link Switching Solutions



Wide Development Options Right switch for right place, with features and options for every need



Flexible Networking Design D-Link switches offers both Connectivity and power supply for flexible network setup



Smart and Secure Ahead of evolving threats with integrated secuity features

Access Network

Over the past few years, enterprise access networks have seen one of the fastest areas of growth. As technology has evolved and user demand has increased, enterprise access networks have turned from a 'traditional' data network to a more complex network with integrated data, voice and multimedia services. D-Link, in meeting the needs of businesses to have more productive processes, is providing the following solutions for their access network:

Wireless Connectivity

D-Link unified solutions bring robust, stable and secure wireless access to businesses. The new generation of Wireless AC and N access points offers seamless connectivity, self-healing mechanisms, traffic segmentation and centralised management to achieve a wireless environment as productive and secure as a wired network.

Power over Ethernet

D-Link's unparalleled range of PoE switches are designed with functionality and robustness in mind. From unmanaged, plug-and-play solutions, to PoE modules in high-end chassis switches, D-Link offers features like Time-Based PoE to centrally cut off the power when not in use, and the new 802.3bt PoE++ standard, to provide extra power up to 90W to the next generation of network appliances.

Video Surveillance

Traditionally, CCTV cameras, video recorders and sensors have been a separate part of a business' subsystems. IP technology applied to surveillance brings flexibility, unified management and comprehensive image recording and indexing to modern networks. With a complete range of IP cameras and Network Video Recorders (NVRs), D-Link can offer the solution that best matches your business needs.

.

ITTELLER.

1.2

Aggregation Network

Aggregation Networks distribute traffic from an Access Network across the business. Routing, filtering and WAN access processes, and access to resources like network storage, all therefore take place at this level. D-Link offers flexible and robust solutions with Layer 2+ and Layer 3 managed switches, ready for the next generation of IP networks:

IPv6-Ready

As the range of IPv4 addresses has been depleted, IPv6 is being deployed in an increasing number of organisations such as Internet Service Providers (ISP) and international data carriers. Therefore businesses need to build the migration from IPv4 to IPv6 into their Network strategies to ensure that they are able to benefit from the advanced services that only IPv6 can offer. Most D-Link aggregation switches are certified 'IPv6 Ready' and are capable of being integrated into current and future networks, protecting both your investment and IT budget.

Bandwidth Management & Traffic Filtering and Analysis

With the surge of traffic and additional services, the business network is under increasing pressure, so IT administrators need to ensure that traffic is at a reasonable level and network resources are utilised properly. D-Link offers the tools to run a network smoothly and avoid disruptions and bottlenecks, such as bandwidth management to a high level of granularity. D-Link has SafeGuard Engine technology, too, which protects the switch from unexpected traffic peaks or virus outbreaks, and sFlow compatibility to analyse network sessions in great detail.

Core Network

The Core is the backbone of any big business network, and is therefore the most critical 'component'. High availability, resilience and fault isolation are important factors if you are to avoid critical disruptions. D-Link has the technology to ensure that the core processes run smoothly and meet your business needs:

10 Gigabit

With an increase in network traffic, Gigabit technology has become a bottleneck at the core portion of the network, which is where 10 Gigabit switches come in. To ensure that the core can provide the services and features needed at the lower levels of the network, 10 Gigabit uplinks can also be deployed on Gigabit switches. D-Link offers 10 Gigabit technology in both switches and copper/fibre modules in a wide variety of Layer 2+ and Layer 3 devices.

xStacking Technology

D-Link's stacking technology provides resilience and high availability in the form of high-speed, dual-ring stacking solutions that can work around a hardware fault in milliseconds. Faulty hardware can be hot-swapped and replaced without impacting the rest of the network, minimising downtime and ensuring that critical processes are not interrupted.

dlinktgreen



30-Second Layer Guide

Network switch technology operates on a 'layer' basis to ensure total interoperability. Here's our quick guide to what the layers mean...

Layer 1

The Physical Layer, which governs how the network hardware fits together and its assorted electrical/optical specifications. Responsible for the transmission and reception of raw data streams via physical means.

Layer 2

The Data Link Layer, specifies how network traffic is shared and data moved around. It's here that Ethernet switches mostly operate, forwarding traffic based on the universally implemented MAC address of attached devices. In other words, the formation of the data connection between two or more devices.

Layer 3

The Network Layer, at which the IP networking protocol works. It's here that routing is done, based on the Internet Protocol address information. A Layer 3 switch can, therefore, route traffic between networks.

Layers 4-7

As you move up the layers more and more information about the data inside the packets and ultimately the applications involved becomes available. Advanced switches can filter traffic using this information to make more informed decisions on how to process and direct it. It's at this level that FTP servers and the Internet operate, but that's beyond this guide.



Switches

If a switch fails, your business can experience any number of issues, from loss of connectivity for a group of users, to major disruption and downtime for the entire network. D-Link has the knowledge and expertise to help you find the right solution for your business. From the core of your network to its edge, D-Link's comprehensive selection of switches includes 10 Gigabit, Gigabit, Fast Ethernet and PoE that range from entry level to fully managed, more sophisticated solutions. Products under this category include Unmanaged, Smart, Managed and Top-Of-Rack, all as detailed below.



Top-Of-Rack

- Award-winning Enterprise-class performance, security and control
- Modular architecture with redundant control planes option
- High performance 10 Gigabit stacking options with Layer 2 and Layer 3 features
- High reliability with fault-tolerant topologies ensures rock-solid connectivity, and D-Link Green[™] technology provides eco-friendly power saving
- Redundant loadsharing power supplies and a hot-swappable fan module for mission-critical network applications

Smart

- Many of the benefits of Managed, as outlined below, but without the complexity or cost
- Ease of configuration through web-management
- Ideal for users wishing to build small- to medium-size networks but who don't need the advanced features necessary for large-scale corporate deployments
- PoE-compliant, eliminating the need for external power supplies, thus allowing you to utilise existing cables for a tidier system
- Centralised management and virtual stacking via D-Link's intuitive single IP management
- Layer 3 static routing allows for scalable network design for future business growth
- Supports unique Auto Voice and Auto Surveillance VLANs to prioritise traffic from VoIP phones and IP cameras in the network

Managed

- Allows administrators to monitor traffic across the network, introduce redundancy and control access
- Found in networks with numerous users and applications, where performance and reliability must be maximised and security enforced
- Ideal for large sites where server farms are deployed, with hundreds of users sharing multiple printers and applications and routinely using wireless access and video-conferencing, such as in corporate headquarters
- Includes D-Link's industry-leading selection of xStack switches
- PoE-compliant, eliminating the need for external power supplies, thus allowing you to utilise existing cables for a tidier system

Unmanaged

- The simplest way to build a network and let it pretty much run itself
- Plug-and-play connectivity, which makes these perfect for small businesses without a dedicated IT department
- · Ideal for small networks that need to share resources
- Several of our unmanaged switches fall into our D-Link Green[™] range, specifically designed to reduce energy consumption and utilise recycled packaging, which helps reduce the impact on the environment
- PoE-compliant, eliminating the need for external power supplies and thus allowing you to utilise current cables for a tidier system



10 GbE Top-Of-Rack Switches



Layer 2/3 Gigabit Manage Switches



Standalone Switches

INET	UNMANAGED	SMART			LAYER 2 MANA	GED LAYER 2	METRO ETHERNET
10 GIGABIT ETHERNET		DXS-1100 Series		DXS-1210 Series			
2.5 GIGABIT ETHERNET		DMS-1100 Series		DGS-1510 Series	DGS-2000 Series		
	DGS-1000 Series		Attention of a memory of all states and all states	DGS-1520 Series		DGS-3000 Series	
GIGABIT ETHERNET	DGS-105/108 Series	DGS-1100 V2 Series	DGS-1210 Series	DIS-200G Series	DIS-100G Series	DGS-1100 / ME S	
FAST ETHERNET	DES-1000 Series		DGS-1250 Series	DIS-300G Series	DIS-700G Series		
			DES-1210 Series				

PoE Switches

THERNET	UNMANAGED	SMART DMS-1100-10TP (PoE+)		LAYER 2/2+ DGS-2000-10P (PoE+)	METRO ETHERNET
2.5 GIGABIT ETHERNET		DMS-1100-1017 (FOL+)		DGS-2000-10MP (PoE+) DGS-2000-28P (PoE+) DGS-2000-28MP (PoE+) DGS-2000-52MP (PoE+)	
GIGABIT ETHERNET	DGS-1008P (PoE+) DGS-1008MP(PoE+) DGS-1010MP	DGS-1100-08P V2 (PoE+) DGS-1100-24P V2 (PoE+) DGS-1100-10MP V2 (PoE+) DGS-1100-10MPP V2 (UPoE) DGS-1100-26MP V2 (PoE+) DGS-1100-26MPP V2 (UPoE)	DGS-1210-10P (PoE+) DGS-1210-10MP (PoE+) DGS-1210-28P (PoE+) DGS-1210-28MP (PoE+) DGS-1210-52MPP (PoE+) DGS-1210-52MPP (PoE+) DGS-1250-28XMP DGS-1250-52XMP DGS-1510-28XMP (PoE+) DGS-1510-52XMP (PoE+)	DGS-3000-28LP (PoE+) DGS-3000-28XMP (PoE+) DGS-3130-30NPS (PoE+) DGS-3130-30PS (PoE+) DGS-3130-54PS (PoE+) DGS-3420-28PC (PoE+) DGS-3420-52P (PoE+) DGS-3630-28PC (PoE+) DGS-3630-52PC (PoE+)	DGS-1100-24P/ME (PoE+) DGS-1210-10P/ME (PoE+) DGS-1210-28P/ME (PoE+) DGS-1210-28MP/ME (PoE+) DGS-1210-52P/ME (PoE+) DGS-1210-52MP/ME (PoE+) DGS-1210-52MPP/ME (PoE+)
FAST ETHERNET	DES-1008PA (PoE) DES-1018MP (PoE)	DES-1210-08P (PoE) DES-1210-28P (PoE+)	DGS-1520-28MP (PoE+) DGS-1520-52MP (PoE+) DGS-100G-5PSW (PoE+) DGS-200G-12PS (PoE+) DGS-200G-12PSW (PoE+) DGS-300G-8PSW (PoE+) DGS-300G-14PSW (PoE+)		

Power over Ethernet (PoE)

What is Power over Ethernet (PoE)?

Power over Ethernet allows a single cable (usually referred to as a CAT5 cable) to provide both data connection and electrical power to any PoE-enabled devices such as wireless access points, network cameras or IP phones.

PoE essentially passes electrical power along with data on Ethernet (LAN) cabling to compatible network devices, thereby negating the need for power outlets in proximity to the devices being powered.

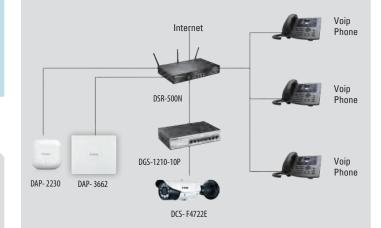
With PoE you only need one cable for both power and data so wireless access points and Video Surveillance cameras, for example, can be installed without having to run power to inaccessible places such as ceilings or roof spaces. You can also protect such devices from outages, by adding a central Uninterruptible Power Supply (UPS), and both monitor and manage energy consumption centrally – perhaps even switching devices off when they're not needed. Support for PoE can be added to existing networks but, if you're serious about it, PoE-enabled switches don't need additional wiring and are easier to manage. Either way, check for support for industry standards, both on the switches and networking devices you want to power.

What is the PoE Power Budget?

The PoE Power Budget is the maximum amount of power that a switch can provide to all the PoE devices connected to it. If this is exceeded, then devices will not function correctly as they are not receiving adequate power. In order to choose the right switch, the overall power consumption for the network must be calculated. This can be done by adding up the maximum power demand of every device you intend to connect to the switch.

It is essential to consider the current and possible future power requirements of your network; overspecifying the power budget of a switch in the first instance will result in higher initial costs but could save time and money in the long run.

D-Link has two 'Smart Switch' families to address different requirements – Smart and Smart+ (MP series). Switches in the Smart+ range have higher power budgets and are capable of providing more power per port than the Smart range which is more economical.



PoE devices can transmit a Discovery Protocol that informs the PoE Switch of the actual power required by the device. If the power is less than the default (15.4W for PoE or 30 W for PoE+), the PoE switch acknowledges the request with its available power and modifies the power budget accordingly. If the requesting powered device exceeds the power budget for the switch, the port is either powered down, or the port remains in low-power mode.

What is PoE ++

The original IEEE 802.3af & 3at PoE / PoE + standard provide up to 15.4A and 30W respective to each PoE enabled device. The latest standard 802.3bt 90W expands the use of PoE in new applications.

802bt 90W PoE++ technology drives high-power infrastructure for smart building systems, safe cities, thin clients, Point-of-Sales, digital signages, high-performance Wi-Fi access points, smart lighting system and a lot more. Building owners can adopt the standard to future-proof their PoE networks.

How can PoE be Green?

Using D-Link's integrated time-based PoE functionality, it is possible to automatically shut down ports which also shut down the devices on a predefined schedule, saving power and money, and increasing security.

Typical PoE Applications

Benefits of PoE

Reduced Costs

With PoE, only one cable – a simple CAT5 Ethernet cable – is required to be routed to each device instead of two (data and power), so fewer power adapters or outlets are needed. In large organisations this can bring a major cost reduction.

Flexibility

A PoE-enabled appliance can be installed virtually anywhere, without the need for AC outlets. This provides flexibility and scalability in placing all the network equipment (switches, wireless access points, and IP cameras) in the most optimal locations instead of locations only where power is available. This also enables better network designs.

Reliability

PoE infrastructure enables centralised power management that provides back-up with an Uninterruptable Power Supply (UPS) to the devices and all the distributed PD networking devices; even during power failures this ensures the reliability and availability of powered devices.

Network Control

Network administrators can control and monitor devices using SNMP (Simple Network Management Protocol). Devices can be powered down when not in use or if there is unauthorised access, which allows for increased security.

Add to, Move or Change the network

PoE-enabled switches enable network additions, moves and changes to be accomplished faster. They allow the network to be more flexible and accommodating to changing business and network requirements.

Centralised Power Management

Managing a PoE-enabled switch via a web browser or by SNMP, enables remote networking devices to be easily reset or shut down, saving the time and expense of dispatching a technician.

Security

Shutting down unnecessary PoE network devices when no one is at the office ensures better business security.

Eco-Friendly

As with security, shutting down unnecessary PoE network devices can also save power and money for a business.



IP Cameras

There are several types of IP cameras – from a basic box camera to an outdoor pan, tilt and zoom (PTZ) to a heated dome camera, and each one has a different power requirement. Basic outdoor IP cameras have a power consumption of about 7 watts; however, additional features require additional power, so an outdoor PTZ device with IR night vision will require significantly more power than an indoor static device.



IP Phones

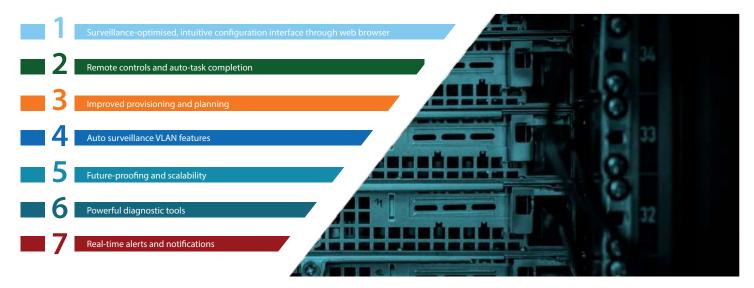
IP phones are commonly connected and powered by PoE. A standard IP phone will consume around 4-7 watts of power whereas one with a backlit, colour screen or even video conferencing capability will use substantially more.



Wireless Access Points

Due to their placements, wireless access points are typically powered using PoE, but different types of Wireless APs have different power requirements. For example, dual-band concurrent APs require more power as they broadcast on both the 2.4 and 5 GHz frequencies. The latest Wireless AC technology delivers wireless speeds of up to 2600 Mbps on the 5 GHz band with enhanced coverage so can benefit from PoE+'s additional power. Feature-rich, yet simple to deploy and maintain, D-Link Full Range Power-over-Ethernet (PoE) switches are ideal for larger, more complex applications such as Smart IoT, Industry 4.0 & Video surveillance networks. Designed to maximise efficiency and security at the hardware level, D-Link PoE switches can help you perform both routine and not-so-routine network tasks more quickly and effectively than unmanaged switches, with the flexibility and control required to ensure long-term network health and uninterrupted connectivity. Upgrading from unmanaged to L3, Industrial & Smart Managed PoE switches offers benefits and capabilities that pay for themselves.

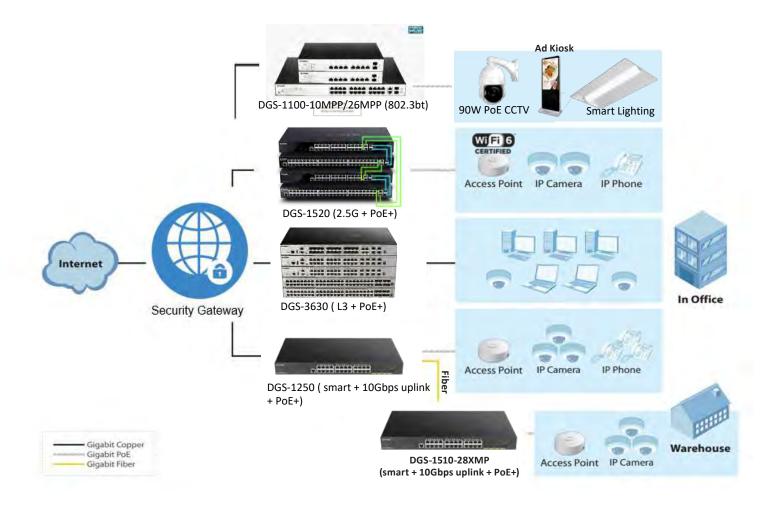
Here are seven reasons your organization should consider switching to D-Link today.



D-Link offers Full PoE Solution From Unmanaged | L2/L3 | Industrial Grade | Cloud PoE Switch

		PoE (802.	3af/at/bt*)		
	Connect Easy Smart DGS-1100 Series	Connect Standard Smart DGS-1210 Series	Standard L2 Managed DGS-3000 Series	Stackable Smart DGS-1510 Series	Stackable Managed DGS-3130 & DGS-3630 Series
250m Unmanaged Surveillance Switch DSS-100E	DGS-1100-08PV2 (64W) DGS-1100-18PV2 (130W) DGS-1100-18PV2 (130W) DGS-1100-24PV2 (100W) DGS-1100-26MPP (242W) DGS-1100-26MPP (518W)	DGS-1210-10P (65W) DGS-1210-10P (65W) DGS-1210-28P (193W) DGS-1210-28P (193W) DGS-1210-28MP (370W) DGS-1210-52MPP (740W)	DGS-3000-28XMP (370W)	DGS-1510-28P (193W) DGS-1510-28XMP (370W)	DGS-3130-30PS (370W*) DGS-3130-54PS (370W*) DGS-3630-28PC (370W*) DGS-3630-52PC(370W*)
DSS-100E-9P (92W) DSS-100E-18P (230W)	250m Unmanaged DES/DGS-F1000 Series	Standard Smart DGS-1250 Series	< nuclias Cloud Managed DBS-2000 Series	Hybrid Stackable L3 DGS-1520 Series	Industrial Switch DIS-100G/200G/300G Series
	DGS/DES-F10106P-E (60W) DGS/DES-F1010P-E (96W) DGS/DES-F1018P-E (150W) DGS/DES-F1026P-E (250W) DGS-F1100-10PS-E (96W)	DGS-1250-28XMP (370W) DGS-1250-52XMP (370W)	DB5-2000-28P (193W) DB5-2000-28P (193W) DB5-2000-28P (370W) DB5-2000-52MP (370W)	DGS-1520-52MP (370W) With RPS 740W 2.5Gbps + PoE	DIS-100G-5PSW (120W) DIS-200G-12PS (130W) DIS-200G-12PSW (130W) DIS-300G-8PSW (120W) DIS-300G-14PSW (240W) DIS-F2010PS-E (240W)

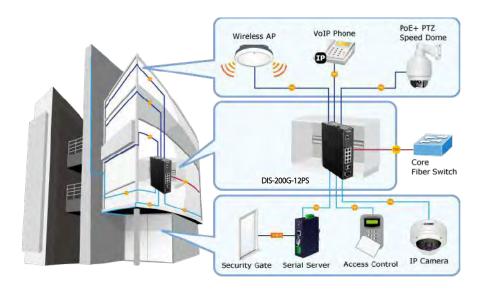
General PoE Application

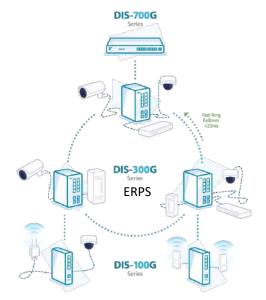




Smart PoE Application



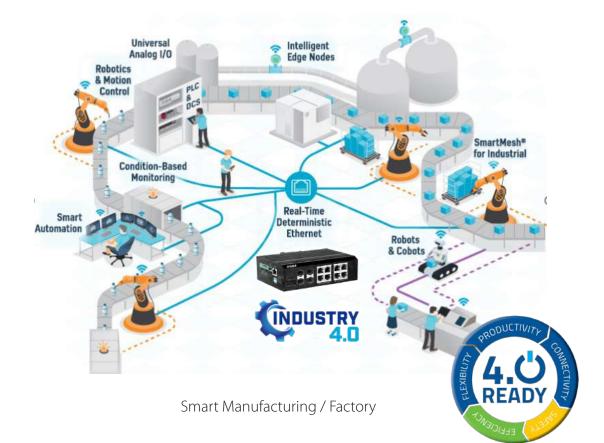




Smart Building

Smart City

Smart Industry Application

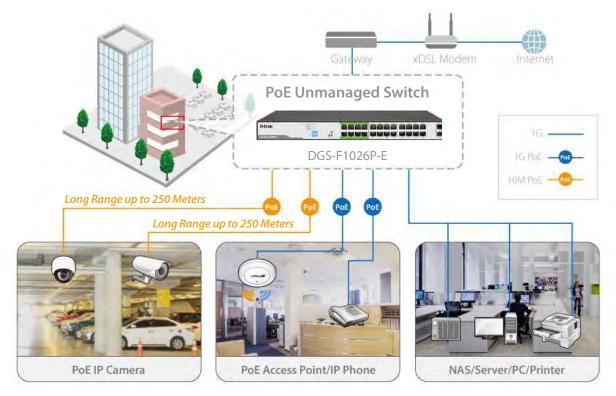


Outdoor Smart Application



Smart Pole

Outdoor Smart Application



250m PoE

Data Center Switches

DXS and DQS-5000 Series

These series of Data Center Switches are high-performance switches that feature high port density, routing, and ultra-low latency, designed to be deployed as Top-of-Rack (ToR) or leafspine switches in data center applications. Combined with ONIE support and increased costefficiency, the 5000 Series form a flexible long-term solution for managing and expanding data center infrastructures in a Software-defined Networking (SDN) environment. The 5000 Series switches support open networking, providing IT professionals with innovative thirdparty operating systems and software options. This lowers costs by separating software from hardware and increases network agility and flexibility.

The 5000 Series switches are available in a variety of high-capacity interface combinations, including SFP+, QSFP+, SFP28, and QSFP28 ports to accommodate the scale and requirements of data centers. Open Network Install Environment (ONIE) support means the switches can be easily integrated inexisting network ecosystems using a variety of supported third-party Network Operating Systems (NOSs) for optimal compatibility. Furthermore, the ability to pick and choose software based on practical requirements eliminates the restrictions imposed by vendor-locked software environments.



DQS-5000-32Q28

• Up to 6.4Tbps

• 32 100G QSDP28 ports

switching capacity

• Up to 40K Mac addresses

16MB Packet Buffer Memory

• Up to 2,980 Mpps

Series include the below models

DXS-5000-54S

- 48 10G SFP+ ports
- 6 x 40 QSFP+ ports
- Up to 1.44Tbps
- switching capacity
- Up to 1,071 Mpps
- Up to 288K Mac addresses 12MB Packet Buffer Memory

DQS-5000-32S • 32 40G QSFP+ ports

- Up to 2.56Tbps
- switching capacity
- Up to 1,428 Mpps
- Up to 288K Mac addresses
- 12MB Packet Buffer Memory

DQS-5000-545Q28

- 48 25G SFP28 ports
- 6 100G QSFP 28 ports
- Up to 3.6Tbps
- switching capacity
- Up to 2,380 Mpps
- Up to 40K Mac addresses
- 16MB Packet Buffer Memory

Available Modules

Ontional 10G SEP+ Transceivers

DEM-431XT - 10GBASE-SR, multi-mode, OM1: 33 m/ OM2: 82 m/ OM3: 300 m (without DDM)

DEM-432XT - 10GBASE-LR, single-mode, 10 km (without DDM) DEM-433XT - 10GBASE-LR, single-mode, 40 km (without DDM) DEM-434XT - 10GBASE-ZR, single-mode, 80 km (without DDM) DEM-435XT - 10GBASE-LRM, multi-mode, 200 m (without DDM)

Optional WDM (Bidi) SFP+ Transceivers

DEM-436XT-BXD - 10GBASE-LR, single-mode, 20 km (TX: 1330 nm, RX: 1270 nm) (without DDM)

DEM-436XT-BXU - 10GBASE-LR, single-mode, 20 km (TX: 1270 nm, RX: 1330 nm) (without DDM)

Optional 40G OSFP+ Transceivers

DEM-QX01Q-SR4 - 40GBASE-SR4, multi-mode, OM3: 100 m / OM4: 150 m DEM-QX10Q-SR4 - 40GBASE-LR4, single-mode, 10 km

Optional 10G SFP+ Direct Attach Cables

DEM-CB100S - 10G SFP+ to SFP+ 1 m Direct Attach Cable DEM-CB300S - 10G SFP+ to SFP+ 3 m Direct Attach Cable DEM-CB700S - 10G SFP+ to SFP+ 7 m Direct Attach Cable DEM-CB100QXS-4XS - 40G QSFP+ to 4 10G SFP+ 1 m Direct Attach Cable

Key Series Features

- Variety of high-speed interface combinations to meet different network requirements
- Two AC/DC hot-swappable power modules for 1+1 redundancy and load sharing
- Modular, N+1 hot-swappable fan design
- Wire-speed, ultra-low latency switching
- Variety of 10G, 25G, 40G, and 100G interfaces for high-density availability and uplink options
- Supports OpenFlow v1.0/1.3
- Supports Virtual eXtensible LAN (VXLAN) network virtualization
- 802.1Qau, 802.1Qbb, 802.1Qaz Data Center
- Preloaded with Open Network Install
- Open Network Linux (ONL)-ready
- RJ-45/mini-USB console port
- Dedicated management port
- Industry-standard CLI





SWITCHES 🕖

MODEL		DXS-5000-54S	DQS-5000-32S	DQS-5000-32Q28	DQS-5000-54SQ28			
	10G	-	-	-	-			
Interfaces	25G	48 x 10G SFP+ Ports	32 x 40G QSFP+ ports	32 x 100G QSFP28 ports	48 x 25G SFP28 ports			
	40G	6 x 40G QSFP+ Ports	1 x USD 2.0 port	1 x USD 2.0 port	6 x 10G QSFP28 ports			
	100G	1 x USD 2.0 port	-	-	1 x USD2.0 port			
	Switching Capacity Max. Forwarding Rate	1.44 Tbps	2.56 Tbps	6.4 Tbps	3.6 Tbps			
Performance	Packet Buffer Memory	1,071 Mpps 12MB	1,428 Mpps 12MB	2,980 Mpps 16MB	2,380 Mpps 16MB			
	MAC Address Table	288K	288K	40K	40K			
	802.3ad Link Aggregation	2001		device, Max 32 ports per group	IUN			
	Spanning Tree Protocol (STP)			02.1s MSTP, Loop Guard, TCN Guard				
	802.3x Flow Control			v				
	Jumbo Frame			Up to 9KB				
Layer 2 Features	Port Mirroring		Support One to One, Many to	o one. Support up to 4 mirroring groups				
	VLAN Mirroring			1				
	RSPAN			1				
	Loopback Detection (LBD)			1				
	IGMP v1/v2/v3			1				
	MLD v1/v2			1				
Layer 3 Multicast Features	DVMRP v3			1				
	PIM-SSM		PIM-SSM, PIM-SM	IPv4/IPv6, PIM-DM IPv4/IPv6				
	IGMP/MLD Proxy			1				
	Broadcast/Unicast/Multicast Control			1				
	SSH			1				
	Port Security	↓ ↓						
Security	DoS attack prevention	✓ ✓						
Security	IP Source Guard	лана (р. 1919) Д						
	DHCP Server Screening	\checkmark						
	Dynamic ARP Inspection (DAI)	\checkmark						
	Duplicate Address Detection			1				
	802.1X Authentication	Support port-based, host-based and Indentity-driven policy assignment						
	Guest VLAN	1						
Authentication,	Radius Authentication			1				
Authorization and Accounting (AAA)	TACACS+ authentication			1				
Accounting (AAA)	Authentication for management access			1				
	MAC-based Access Control			1				
	Queue handling		Strict Priority, Weight	ted Deficit Round Robin (WDRR)				
	Congestion Control		Weighted R	andom Early Detection				
Auglity of Comico (0-C)	Bandwidth Control							
Quality of Service (QoS)	Three Color Marker							
	Class of Service			✓				
	Policy Map	Remark 802.1p priority, Remark ToS/DSCP, Rate limiting						
	Open Network Install Environment			1				
	FCoE Initialization Protocol (FIP) Snooping			\checkmark				
	OpenFlow v1.3			✓				
Data Center Features	Management Tool		Suppor	t Puppet and Chef				
	Data Center Bridging Exchange			√ ✓				
	(DCBX)			v				
		\checkmark						
	Virtual Extensible Local Area							
	Network (VxLAN)			1				
Access Control List	Network (VxLAN) MAC Access List			✓				
Access Control List	Network (VxLAN) MAC Access List IP Access List			✓ IPv4/IPv6				
Access Control List	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI			✓ IPv4/IPv6 ✓				
Access Control List	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI Telnet Server for IPv4/IPv6			✓ IPv4/IPv6 ✓ ✓ d and Indentity-driven policy assignment ✓				
	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI Telnet Server for IPv4/IPv6 Secure FTP client for IPv4/IPv6			✓ IPv4/IPv6 ✓ ✓ d and Indentity-driven policy assignment ✓				
Access Control List Management	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI Telnet Server for IPv4/IPv6 Secure FTP client for IPv4/IPv6 SNMP			IPv4/IPv6				
	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI Telnet Server for IPv4/IPv6 Secure FTP client for IPv4/IPv6 SNMP SMTP			IPv4/IPv6 V d and Indentity-driven policy assignment V V V V				
	Network (VxLAN) MAC Access List IP Access List CPU Interface Filtering Time-based ACL Industry-Standard CLI Telnet Server for IPv4/IPv6 Secure FTP client for IPv4/IPv6 SNMP		Support port-based, host-base	IPv4/IPv6				

Layer 3 Stackable 10G Managed Switches

DXS-3610 Series

The D-Link DXS-3610 Series Layer 3 Stackable 10G Managed Switches are a set of new, compact, high-performance switches that feature ultra low latency, with 10G Ethernet switching and routing. The 1U height and front-to-back airflow make the DXS-3610 Series suitable for Enterprise and campus aggregation network environments. The DXS-3610 Series is available in two configurations; 48 fixed 10G SFP+ with 6 fixed 100G QSFP28 and 48 fixed 10G Base-T with 6 fixed 100G QSFP28. 100G ports allow for either uplink or stacking configurations, depending on your system's needs.



Series include the below models

DXS-3610-54S

- 48 x 1/10GbE SFP/SFP+ ports
- 6 x 40/100GbE QSFP+/QSFP28 ports
- 19-inch, 1U rack-mount

Optional Products

DXS-3610-54S/SI 48-port 10G SFP+, 6-port 100G QSFP28 interfaces switch with Standard Image with 2 full load front-to-back AC PSUs and 5 front-to-back fan modules DXS-3610-545/E1 48-port 10G SFP+, 6-port 100G QSFP28 interfaces switch with Enhanced Image with 2 full load front-to-back AC PSUs and 5 front-to-back fan modules DXS-3610-54T/S1 48-port 10GBase-T, 6-port 100G QSFP28 interfaces switch with Standard Image with 2 front-to-back AC PSUs and 5 front-to-back fan modules DXS-3610-54T/EI 48-port 10GBase-T, 6-port 100G QSFP28 interfaces switch with Enhanced

Optional Management Software DV-700 - D-View 7 Network Management Software DV-800 - D-View 8 Network Management Software

Optional 100G QSFP28 Transceivers4 DEM-Q2801Q-SR4 • 100GBASE-SR4 QSFP28, Multi-Mode 100 m SR4 transceiver DEM-Q2810Q-LR4 • 100GBASE-LR4 QSFP28, Single-Mode 10 km LR4 transceive

Optional 40G QSFP+ Transceivers4 DEM-QX01Q-SR4 • 40GBASE-SR4 Multi-mode, OM3:100M/OM4:150 m DEM-QX10Q-LR4 • 40GBASE-LR4 Single-mode, 10 km

Optional 10G SFP+ Transceivers4 DEM-431XT • 10GBASE-SR SFP+ transceiver (w/o DDM), 80 m: OM1 & OM2 MMF, 300 m: 0M3 MMF DEM-432XT • 10GBASE-LR SFP+ transceiver (w/o DDM), 10 km

DEM-433XT • 10GBASE-ER SFP+ transceiver (w/o DDM), 40 km DEM-434XT • 10GBASE-ZR SFP+ transceiver (w/o DDM), 80 km

DEM-436XT-BXU • 10GBASE-LR BiDi SFP+ transceiver (w/o DDM) 20 km, Tx: 1270 nm,

Rx: 1330 nm

DEM-436XT-BXD • 10GBASE-LR BiDi SFP+ transceiver (w/o DDM) 20 km, Tx: 1330 nm, Rx: 1270 nm

al 1G SFP Tra

DEM-310GT • 1000BASE-LX SFP transceiver, single-mode fiber, 10 km, 3.3 V operating voltage DEM-311GT • 1000BASE-SX SFP transceiver, multi-mode fiber, 550 m, 3.3 V operating voltage DEM-312GT2 • 1000BASE-SX SFP transceiver multi-mode fiber, 2 km, 3.3 V operating voltage DEM-314GT • 1000BASE-LHX SFP transceiver, single-mode fiber, 50 km, 3.3 V operating voltage DEM-315GT • 1000BASE-ZX SFP transceiver, single-mode fiber, 80 km, 3.3 V operating voltage DEM-330T • 1000BASE-BX WDM SFP transceiver, single-mode fiber, 10 km, 3.3 V operating voltage, Tx: 1550 nm, Rx: 1310 nm

DXS-3610-54T

- 48 x 1/10GbE Base-T ports
- 6 x 40/100 GbE 0SFP+/0SFP28 ports
- 19-inch, 1U rack-mount

Image with 2 front-to-back AC PSUs and 5 front-to-back fan modules DXS-3610-545-5E-LIC DXS-3610-545 Standard Image to Enhanced Image License DXS-3610-545-5E-LIC DXS-3610-545 Standard Image to Enhanced Image License DXS-9WR700AC 770 W AC modular power supply with front-to-back airflow DXS-PWR700AC 770 W AC modular power supply with front-to-back airflow DXS-FAN200 Fan tray with front-to-back airflov

DEM-330R • 1000BASE-BX WDM SFP transceiver, single-mode fiber, 10 km, 3.3 V operating voltage, Tx: 1310 nm, Rx: 1550 n DEM-331T • 1000BASE-BX WDM SFP transceiver, single-mode fiber, 40 km, 3.3 V operating voltage, Tx:1550 nm, Rx: 1310 nm

DEM-331R • 1000BASE-BX WDM SFP transceiver single-mode fiber, 40 km, 3.3 V operating voltage, Tx: 1310 nm, Rx: 1550 nm DGS-712 • 1000BASE-TX SFP transceive

nal 100G OSFP28 Direct Attach Cables

DEM-CB100Q28 • 100G QSFP28 to QSFP28 1 m Direct Attach Cable

nal 40G QSFP+ Direct Attach Cable DEM-CB100QXS • 40G QSFP+ to QSFP+ 1 m Direct Attach Cable DEM-CB300QXS • 40G QSFP+ to QSFP+ 3 m Direct Attach Cable

onal 10G SFP+ Direct Attach Cables DEM-CB100S • 10G SFP+ to SFP+ 1 m Direct Attach Cable DEM-CB300S • 10G SFP+ to SFP+ 3 m Direct Attach Cable DEM-CB700S • 10G SFP+ to SFP+ 7 m Direct Attach Cable

Key Series Features

- 48 x 1/10GbE SFP/SFP+ ports 6 x 40/100GbE 0SFP+/0SFP28 ports
- 48 x 1/10GbE Base-T ports 6 x 40/100 GbE QSFP+/QSFP28 ports Two AC/DC hot-swappable power modules for
- 1+1 power redundancy and load sharing
- Hot-swappable fan trays with front-to-back airflow and N+1 cooling redundancy
- Up to 1200G stacking bandwidth with twelve devices functioning together as a single unit
- IEEE 802.1Qbb Priority-based Flow Control (PFC)
- MPLS
- ERPS (G.8032 v1/v2)
- MACSec1 (DXS-3610-54T 10G BASE-T port only)
- OpenFlow v1.3
- IEEE 802.3ah Ethernet link OAM
- IEEE 802.1ag
- ITU-T Y.1731
- Web-based GUI, Command Line Interface (CLI)

Upgradable to **Enhanced Image**

- L3 Multicasting
- MPLS
- L3 VPN
- L3 Routing

1 Will be supported in future releases. 2 Based on maximum value of Switch Resource Management (SRM) 3 Table is shared between all multicast functions 4 Only supports full duplex mode

MODEL		DXS-3610-545	DXS-3610-54T				
	Ports	• 48 x 1/10GbE SFP/SFP+ ports	• 48 x 1/10GbE Base-T ports				
Interfaces	Console Port	6 x 40/100GbE QSFP+/QSFP28 ports RL45 console port for o	• 6 x 40/100 GbE QSFP+/QSFP28 ports put-of-band management				
	Stackability	Physical Stack up to 12 units, Virtual Stacking/Clustering up to 32 units	Physical Stack up to 12 units, Virtual Stacking/Clustering up to 32 units				
	Switching Capacity	2.16 Tbps	2.16 Tbps				
General	Forwarding Mode	1607.04 Mpps	1607.04 Mpps				
Features	Packet Buffer Memory	32	2 MB				
	MAC Address Table		o 288K				
	Flow Control	802.3x, HOL Blocking Prevention					
	803.2AX Link Aggregation		evice, 12 ports per group				
Layer 2 Features	Port Mirroring Flow Mirroring	Supports One-to-One, Many-to-One, Mirroring for Tx/Rx/Both, 4 mirroring groups Supports One-to-One, Many-to-One, Mirroring for Rx, 4 mirroring groups					
	Jumbo Frame		416 bytes				
	ARP		atic ARP				
Layer 3 Features	IP Interface	Supports 2	56 interfaces				
Layer 5 reatures	Default Routing		\checkmark				
	Static Routing		ary route, Equal Cost/Weighted Cost multi-path route				
	VLANs	•	096 Static				
	GVRP Subnet-based VLAN	· · · · · · · · · · · · · · · · · · ·	96 Dynamic 🖌				
Virtual LAN (VLAN)	Double VLAN (Q-in-Q)		✓ ed, Selective				
	Port-based VLAN						
	MAC-based VLAN		✓ ✓				
	VLAN Group		Groups, Max 4094 VIDs				
L3 Multicasting* (/EI)	Table Size		to 16K				
·······	Protocols		Protocol (MSDP), PIM-Sparse-Dense Mode, PIM-SSM, DVMRP v3, MLD v1/v2				
	Standard		2.1p				
	No. of Queues Queue handling		s per port ound Robin (RR), Weighted Deficit Round Robin (WDRR)				
Quality of Service (QoS)	QoS based on	· · · · · · · · · · · · · · · · · · ·	address, IPv6 Traffic class, IPv6 flow label, TCP/UDP port				
((c))	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 8 Kb/s) Flow-Based (Ingress/Egress, min. granularity 8 Kb/s) Per Queue Bandwidth Control (min. granularity 8 Kb/s)					
	Port Security	Up to 12K MAC addr	resses per port/system				
	Broadcast/Multicast/Unicast Storm Control		\checkmark				
	IPv6 Route Advertisement (RA) Guard		\checkmark				
	DHCP Server Screening						
Security	IP-MAC-Port Binding	ARP Inspection, IP Source Guard, DHCP Snooping					
	DHCP Server Screening ARP Spoofing Prevention	Max 64 Entries					
	Traffic Segmentation						
	D-Link SafeGuard Engine	\checkmark					
	L3 Multicasting	Multicast Table Size: up to 16K, IGMP v1, v2c, v3, PIM-SM IPv4/IPv6, PI	M-DM, MSDP,PIM-Sparse-Dense Mode, PIM-SSM, DVMRP v3, MLD v1/v2				
Enhanced Image (EI)	MPLS		rivate Wire Service (VPWS), Virtual Private LAN Service (VPLS), BGP/MPLS VPN,				
Additional Features		-	ting Forwarding (VRF), LSP MPLS Ping/Traceroute				
	L3 VPN		3GP, VRF aware application				
	L3 Routing		Pv1/2, IP Directed Broadcast, Bidirectional Forwarding Detection (BFD), BGP				
Authentication, Authorisation and	802.1x Authentication		:t-based access control, Dynamic VLAN Assignment, LAN/ACL/QoS) Assignment				
	Access Control	802.1p priority, VLAN, MAC address, EtherType, IP address, DSCP, Protocol type, TCP/UDP port number, IPv6 Traffic Class, IPv6 Fl					
	Guest VLAN		\checkmark				
Access Control Lists (ACL)	Max ACL entries	2304 ingress ACL rules, 2K egres	ss ACL rules, 3K VLAN Access Maps				
	Time-Based ACL						
	Web-based GUI						
	Command Line Interface (CLI) Telnet, TFTP Client						
	SNMP v1/v2c/v3		J				
Management	sFlow		✓				
	RMONv1 / v2		√				
	OpenFlow v1.3		\checkmark				
	LLDP/LLDP-MED		\checkmark				
	Power Input		ign, Input: 100 to 240 V AC, 50/60 Hz				
	Maximum Power Consumption Number of Fans	320.8 W	330.2 W				
Physical and	Operating Temperature		to 45°C				
Environment	Operating Humidity		Non-Condensing				
	Dimensions (W x D x H)		m (17.36 x 19.19 x 1.71 in)				
	Mean Time Between Failures (MTBF)		2 hours				
	100G QSFP28 Direct Attach Cables		B100Q28				
	40G QSFP+ Direct Attach Cables		5, DEM-CB300QXS				
	10G SFP+ Direct Attach Cables		CB300S, DEM-CB700S				
	100G QSFP28 Transceivers 40G QSFP+ Transceivers		4, DEM-Q2810Q-LR4 4, DEM-QX10Q-LR4				
Modules / Transceivers	10 Gigabit SFP+ Modules		A-434XT, DEM-436XT-BXU, DEM-436XT-BXD				
	SFP Transceivers		15GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712				
	Modular Power Supply and Fan	DXS-PWR1000DC • 1100 W DC modular	bower supply with front-to-back airflow r power supply with front-to-back airflow with front-to-back airflow				

Layer 3 Stackable 10 G Managed Switches

DXS-3400 Series

D-Link's DXS-3400 Series Layer 3 Stackable 10 GbE Managed Switches are new, compact, high-performance switches that feature wire-speed 10-Gigabit Ethernet switching, routing, and ultra-low latency. The 1U height and high port density make the DXS-3400 Series suitable for enterprise and campus environments where space is at a premium. The DXS-3400 Series switches also include 20 10GBASE-T or 10G SFP+ ports and 4 10GBASE-T/SFP+ combo ports, making them suitable for datacenter, core, and distribution applications. The DXS-3400 Series switches feature a modular fan and power supply design for a high availability architecture. The hot-swappable design means that fans and power supplies can be replaced



without affecting switch operation. The DXS-3400 Series switches come with 3 modes: IP Mode, LAN Mode, and L2 VPN Mode, which modify the size of the Layer 2 and 3 tables for optimum efficiency.

Series include the below models

DXS-3400-24TC

- 10 Gigabit Base-T x 20
- 10 Gigabit Base-T / SFP+ Combo x 4
- Switching capacity of up to 480 Gbps
- Up to 80G stacking bandwidth
- Up to 4 switches in a stack
- Ring/chain topology support
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

DXS-3400-24SC

- 10 Gigabit SFP+ x 20
- 10 Gigabit Base-T / SFP+ Combo x 4
- Switching capacity of up to 480 Gbps
- Up to 80G stacking bandwidth
- Up to 4 switches in a stack
- Ring/chain topology support
- Hot-swappable power modules for power redundancy and load sharing
- Hot-swappable fan trays with airflow control provide cooling redundancy

Key Series Features

- Two AC/DC hot-swappable power modules for
- 1+1 redundancy and load sharing
- Three hot-swappable fan trays provide N+1 cooling redundancy
- Physical stacking via four 10G ports, can stack up to 4 devices
- Ethernet Ring Protection Switching (ERPS)
- Switch Resource Management (SRM) for flexible management of system resources
- IEEE 802.1Qbb Priority-based Flow Control (PFC)
- IEEE 802.1Qaz Enhanced Transmission Selection (ETS)
- IEEE 802.1Qau Congestion Notification (CN)
- Port mirroring/Bandwidth Control
- Broadcast/Multicast/Unicast storm control
- Single Rate Three Color Marker (srTCM)
- Two Rate Three Color Marker (trTCM)
- RJ-45/Mini-USB console port
- Management and alarm ports
- USB port for firmware and configuration files
- Easy-to-use Web GUI
- Industry-standard CLI

Upgradable to Enhanced Image

- L3 IPv6 Tunneling
- L3 OSPF Routing
- L3 Multicasting

Optional Products

Optional Software Image Upgrade Licenses
DXS-3400-245C-SE-LIC DXS-3400-245C Standard Image to Enhanced Image license
DXS-3400-24TC-SE-LIC DXS-3400-24TC Standard Image to Enhanced Image license

Optional Redundant/Replacement Power Supplies

DXS-PWR300AC 300 W AC modular power supply with front-to-back airflow DXS-PWR300DC 300 W DC modular power supply with front-to-back airflow

Optional Redundant/Replacement Fan Tray
DXS-FAN100 Fan module with front-to-back airflow

Optional 10 Gbps SFP+ Direct Attach Stacking Cables DEM-CB1005 10 Gigabit SFP+ 1 m Direct Attach Stacking Cable DEM-CB3005 10 Gigabit SFP+ 3 m Direct Attach Stacking Cable DEM-CB3005 10-GbE SFP+ 5m Direct Attach Stacking Cable DEM-CB3005 10-GbE SFP+ 7 m Direct Attach Stacking Cable

Optional Management Software

DV-700 D-View 7 Network Management System DV-800 D-View 8 Network Management System

		o * 0				
MODEL		DXS-3400-24TC	DXS-3400-24SC			
	10 Gigabit Ethernet SFP+	—	20			
nterfaces	10 Gigabit Base-T	20	-			
	10 Gigabit Base-T/SFP+ Combo	4	4			
	Stackability	Virtual Stacking of up to 32 Units; Physical Stacking of up to 4 Units	Virtual Stacking of up to 32 Units; Physical Stacking of up to 4 Units			
	Stacking Speed (per Port)	up to 80 Gbps	up to 80 Gbps			
~ ·	Switching Capacity	480 Gbps	480 Gbps			
Seneral	Forwarding Mode	357.12 Mpps 357.12 Mpps				
eatures	Packet Buffer Memory	4 N				
	MAC Address Table	48				
	Flow Control	802.3x, HOL Bloc	-			
	803.2ad Link Aggregation	Max 32 Groups per Dev				
.ayer 2 Features	Port Mirroring	One-to-One, Many-to-One, Mirriorin				
.,	Flow Mirroring	One-to-One, Many-to-One, Mirr	oring for Rx, 4 Mirroring Groups			
	Jumbo Frame	Up to 12,0	000 Bytes			
	ARP	512 Sta	tic ARP			
	IP Interface	Supports 25	6 interfaces			
ayer 3 Features	Default Routing		/			
	Static Routing	Max. 256 IPv4 entries, 128 IPv6 Entries, Supports Route Distribution, Suppo				
	VLANs	Up to 40				
	GVRP	Up to 4094				
	Subnet-based VLAN	J. J				
/irtual LAN (VLAN)	Double VLAN (Q-in-Q)	Port-Based	l, Selective			
	Port-based VLAN	J. J	/			
	MAC-based VLAN		/			
	VLAN Group	Max 4K Static VLAN G	roups, Max 4094 VIDs			
	Groups	25				
Aulticasting	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spa				
	Standard	802				
			•			
	No. of Queues	8 per				
	Mode	Srict/WRR/Strict +				
Quality of Service (QoS)	CoS Handling	802.1p Priority Queues ,DSCP, VLAN, MAC address, IP a	ddress, IPv6 Traffic class, IPv6 flow label, TCP/UDP port			
	Bandwidth Control	Port-Based (Ingress/Egress, min. granularity 64 Kb/s) Flow-Based (Ingress/Egress, min. granularity 64 Kb/s) Per Queue Bandwidth Control (min. granularity 64 Kb/s)				
	STP Security	BPDU fi	Iterina			
	Per-Port MAC Limitation		/			
	Static MAC	Up to 12K Addresse	es ner Port/System			
	Storm Control	Broadcast / Multicast / Unicast				
Security	IP-MAC-Port Binding					
ecurry	DHCP Server Screening	ARP Inspection, IP Inspection, DHCP Snooping				
	ARP Spoofing Prevention	Max 64				
	Traffic Segmentation	J	, ,			
	D-Link SafeGuard Engine	√				
Data Centre Features	DCB Standards Supported	IEEE 802.1Qbb Priority-based Flow Control (PFC), IEE IEEE 802.1Qau Congestion				
	12 Multicacting	Multicast Table Size: 2K, IGMP v1, v2, v3, PIM-SM, PIM-DM,				
	L3 Multicasting		•			
inhanced Image (EI)	L3 Features	IPv6 Tunneling (Static, I: Supports 4006K bardware routing optrics shared by IDv4 (IDv6 (may, 4006K IDv4				
Additional Features	L3 Routing	Supports 4096K hardware routing entries shared by IPv4/IPv6 (max. 4096K IPv4 shared by IPv4/IPv6 (max. 32K IPv4 entries, max. 16K IPv6 entries), RIP (RIP v1/v Equal Cost Route), BGPv4, Route Redistributio	2, RIPng), OSPF (OSPF v2, OSPF v3, OSPF Passive Interface, Stub/NSSA Area, OSP on, IP Directed Broadcast, Policy Based Route			
		Supports Port-based access control supports Host				
Authentication,	802.1x Authentication		-based access control, Dynamic VLAN Assignment,			
Authorisation and		Identity-driven Policy (VL	AN/ACL/QoS) Assignment			
	Access Control		AN/ACL/QoS) Assignment			
Authorisation and	Access Control Guest VLAN	Identity-driven Policy (VL Web-based Access Control (WAC),	AN/ACL/QoS) Assignment MAC-based Access Control (MAC)			
Authorisation and	Access Control Guest VLAN Max ACL entries	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egn	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules			
Authorisation and Accounting (AAA)	Access Control Guest VLAN Max ACL entries Time-Based ACL	ldentity-driven Policy (VL Web-based Access Control (WAC), س 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA)	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA)	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI)	ldentity-driven Policy (VL Web-based Access Control (WAC), س 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA)	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL)	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI)	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SNMP	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SNMP SSH	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SNMP SSH RMON RADIUS/TACACS+	Identity-driven Policy (VL Web-based Access Control (WAC), 70 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SNMP SSH RMON RADIUS/TACACS+ LLDP/LLDP-MED	Identity-driven Policy (VL Web-based Access Control (WAC), 7792 Ingress ACL Rule, 512K Egn 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 2010 2010 2010 2010 2010 2010 2010 201	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SIMMP SSH RMON RADIUS/TACACS + LLDP/LLDP-MED Power Supply	Identity-driven Policy (VL Web-based Access Control (WAC), 1792 Ingress ACL Rule, 512K Egn 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SIMP SSH RMON RADIUS/TACACS + LLDP/LLDP-MED Power Supply Maximum Power Consumption	Identity-driven Policy (VL Web-based Access Control (WAC), 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management Physical and	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SIMP SSH RMON RADIUS/TACACS + LLDP/LLDP-MED Power Supply Maximum Power Consumption Number of Fans	Identity-driven Policy (VL Web-based Access Control (WAC), 7792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 4 4 4 4 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SSMP SSH RMON RADIUS/TACACS+ LLDP/LLDP-MED Power Supply Maximum Power Consumption Number of Fans Operating Temperature	Identity-driven Policy (VL Web-based Access Control (WAC), 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 2010 2010 2010 2010 2010 2010 2010 201	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management Physical and	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SNMP SSH RMON RADIUS/TACACS+ LLDP/LLDP-MED Power Supply Maximum Power Consumption Number of Fans Operating Temperature Operating Humidity	Identity-driven Policy (VL Web-based Access Control (WAC), 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 2010 2010 2010 2010 2010 2010 2010 201	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL Rules totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL RULE totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL RULE totocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable ess ACL Rule, 3K VLAN ACL RULE totocol Type, 3K			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Management Physical and	Access Control Guest VLAN Max ACL entries Time-Based ACL Web-based GUI Command Line Interface (CLI) Telnet, TFTP Client SSMP SSH RMON RADIUS/TACACS+ LLDP/LLDP-MED Power Supply Maximum Power Consumption Number of Fans Operating Temperature	Identity-driven Policy (VL Web-based Access Control (WAC), 1792 Ingress ACL Rule, 512K Egr 802.1p Priority, VLAN, MAC Address, Ether Type, IP Address, DSCP, Pr 2010 2010 2010 2010 2010 2010 2010 201	AN/ACL/QoS) Assignment MAC-based Access Control (MAC) ess ACL Rule, 3K VLAN ACL Rules otocol Type, TCP/UDP Port Number, IPv6 Traffic Class and flow Lable rest and flow Lable rest and flow Lable 1000 Port Number, IPv6 Traffic Class and flow			

Layer 3 Stackable Gigabit Managed Switches

DGS-3630 Series (with 10G Uplinks)

The DGS-3630 Series Layer 3 Stackable Managed Switches are designed for medium to larger sized businesses, large Enterprises, and ISPs. They deliver high performance, flexibility, fault tolerance, and advanced software features for maximum return on investment. With Gigabit Ethernet RJ45 and SFP ports, 10 GbE SFP+ ports, advanced security features, and advanced Quality of Service (QoS), the DGS-3630 Series can act as core, distribution or access layer switches. High port densities, switch stacking, and easy management make the DGS-3630 Series suitable for a variety of applications. The DGS-3630 Series switches include the Standard Image (SI) software, and for additional functionality, they may be upgraded to Enhanced Image (EI) via a separately ordered license upgrade. The Standard Image provides core SMB and SME functionality, such as L2 switching, entry-level routing, L2 multicast, advanced QoS, Operations, Administration, and Maintenance (OAM), and robust security features. The Enhanced Image includes all the features from the Standard Image, and also supports full L3 routing for Enterprise integration, including OSPF, BGP, VRF-Lite and L3 multicast. This approach allows I.T. managers to deploy a lower cost L2/L2+ solution today, and upgrade



to a L3 solution in the future if networking needs change and a full dynamic routing solution is required.

Series include the below models

DGS-3630-28TC

- 10/100/1000BASE-T ports x 20
- Combo 10/100/1000BASE-T/SFP ports x 4
- 10 Gigabit SFP+ ports x 4

DGS-3630-28SC

- SFP ports x 20
- Combo 10/100/1000BASE-T/SFP ports x 4
- 10 Gigabit SFP+ ports x 4

DGS-3630-28PC

- 10/100/1000BASE-T ports x 20
- Combo 10/100/1000BASE-T PoE/SFP ports x 4
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (740 W with DPS-700 RPS)*

Optional Accessories

Optional 10 Gbps SFP+ Direct Attach Stacking Cables

DEM-CB100S 10 Gigabit SFP+ 1 m Direct Attach Stacking Cable DEM-CB300S 10 Gigabit SFP+ 3 m Direct Attach Stacking Cable DEM-CB700S 10-GbE SFP+ 7m Direct Attach Stacking Cable

Optional Redundant Power Supplies

DPS-500A Redundant power supply unit for DGS-3630-28TC, DGS-3630-28SC, DGS-3630-52TC DPS-500DC DC Redundant power supply unit for DGS-3630-28TC , DGS-3630-28SC , DGS-3630-52TC DPS-700 Redundant power supply unit for DGS-3630-28PC , DGS-3630- 52PC

*Revision A2 comply with UL 62368 / EN 62368-1

Key Series Features

- Physical stacking up to 9 units, 432 GbE ports
- Supports long-distance stacking over fiber
- 80 Gbps per device physical stacking bandwidth
- 20/44 10/100/1000BASE-T ports or 20 SFP ports
- 4 Combo 10/100/1000BASE-T/ SFP ports
- 4 10-Gigabit SFP+ uplink ports
- Switch Resource Management
- (SRM) for flexible management of system resources
- 6 kV surge protection on all RJ45 access ports
- Redundant Power Supply (RPS) support
- IEEE 802.1D/802.1w/802.1s
- Spanning Tree
- Loopback Detection (LBD)
- Ethernet Ring Protection
- Switching (ERPS)
- RJ45/mini-USB console port
- Management and alarm ports
- USB port for firmware and configuration files
- · Easy-to-use web GUI
- Industry standard CLI
- IEEE 802.3ah Ethernet First Mile
- (EFM)
- IEEE 802.1ag/ITU-T Y.1731 OAM

Upgradable to Enhanced Image

- Super VLAN
- L3 Routing: BGP, VR F-Lite, OSPF
- L3 Multicasting

Upgradable to MPLS Image

- · L3 Routing: IS-IS
- MPLS

DGS-3630-52TC

- 10/100/1000BASE-T ports x 44
- Combo 10/100/1000BASE-T/SFP ports x 4
- 10 Gigabit SFP+ ports x 4

DGS-3630-52PC

- 10/100/1000BASE-T ports x 44
- Combo 10/100/1000BASE-T PoE/SFP ports x 4
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget (740 W with DPS-700 RPS)*

SWITCHES 23

			NON POE		PO	E			
MODEL		DGS-3630-28TC	DGS-3630-28SC	DGS-3630-52TC	DGS-3630-28PC	DGS-3630-52PC			
	Gigabit Ethernet	20	—	44	20 (PoE)	44 (PoE)			
Interfaces	Gigabit SFP Slots	—	20	—	—	—			
	Combo 10/100/1000BASE-T/SFP Slots	4	4	4	4 (PoE)	4 (PoE)			
	10 Gigabit SFP+ Slots	4	4	4	4	4			
	Stackability		Virtual Stacking	g of up to 32 Units; Physical Stacking	g of up to 9 Units				
	Stacking Speed	up to 80 Gbps 128 Ghns 128 Ghns 176 Ghns 128 Ghns 176 Ghns							
	Switching Capacity	128 Gbps	128 Gbps	176 Gbps	128 Gbps	176 Gbps			
General	Forwarding Mode			Store-and-Forward					
Features	Packet Buffer Memory	4 MB							
	MAC Address Table	68,000							
	Flow Control			802.3x, HOL Blocking Prevention					
	MDI/MDIX			Configurable					
	Loop Protection		N	802.1Q, 802.1w, 802.1s, ERPS					
aver 3 Features	803.2ad Link Aggregation			per Device. 8 Gigabit Ports or 2 10 G					
Layer 2 Features	Port Mirroring		Une-	to-One, Many-to-One, Flow-Based,	KSPAN				
	Loopback Detection			<i>J</i>					
	Cable Diagnostics			-					
	IP Interfaces		Ctatic DID v1/v2 DID	256 256 NGE v3* RGD v4* RC	SD_ vA* IS_ISvA/va**				
	Routing Protocols		Static, KIP V1/V2, KIP	ng*, OSPF v2, OSPF v3*, BGP v4*, BC	JF + V4 , IS-ISV4/V0				
Layer 3 Features	Policy-Based Routing			ECMP/WCMP					
	Route Balancing								
	IPv6 Tunneling			Static*, ISATAP*, GRE*, 6to4*					
	VRRP								
	VLANs			4096 Static; 4096 Dynamic					
/irtual LAN (VLAN)	GVRP			1					
	Protocol VLAN (802.1v)								
	Double VLAN (Q-in-Q)			Port-Based / Selective					
Multicasting	Groups			8,000					
-	Protocols		IGMP V1 / V2 / V3, PIM-	-SM, PIM-SM v6*, PIM-DM*, PIM Sp.	are-Dense*, DVMRP v3*				
	Standard			802.1p					
	Number of Queues		-	8					
Quality of Service (QoS)	Mode			rict / WRR / Strict+WRR / WRED/WD					
	CoS Handling	Switch	n Port, VLAN ID, 802.1p, MAC, IPv4, IPv		lass, IPv6 Flow Label, Payload (User-	Defined)			
	Bandwidth Control			Port-Based, Flow-Based					
	STP Security			BPDU Filtering, Root Restriction					
	Per-Port MAC Limitation								
	Static MAC	Port Security for up to 3328 MAC Addresses for Port/System/VLAN							
	Storm Control	Broadcast / Multicast / Unicast							
Security	IP-MAC-Port Binding			12,000 Entries					
	DHCP Spoofing Prevention								
	ARP Spoofing Prevention			1					
	Traffic Segmentation			1					
	D-Link SafeGuard Engine								
	802.1x Authentication			1					
				ased, Host-Based, Dynamic VLAN Ass					
Authentication	Web-Based Access Control (WAC)		Port-Ba	ised, Host-Based, Dynamic VLAN Ass ised, Host-Based, Dynamic VLAN Ass	ignment				
	MAC-Based Access Control (MAC)		Port-Ba	ised, Host-Based, Dynamic VLAN Ass ised, Host-Based, Dynamic VLAN Ass ised, Host-Based, Dynamic VLAN Ass	ignment				
Authorisation and	MAC-Based Access Control (MAC) Network Access Protection (NAP)		Port-Ba	ased, Host-Based, Dynamic VLAN Ass ased, Host-Based, Dynamic VLAN Ass ased, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP	ignment				
Authorisation and	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN		Port-Ba Port-Ba	ased, Host-Based, Dynamic VLAN Ass ased, Host-Based, Dynamic VLAN Ass ased, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP	ignment ignment				
Authorisation and	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access		Port-Ba Port-Ba Ri	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP 4 ADIUS / TACACS+, 4-Level User Accoi	ignment ignment unt				
Authorisation and Accounting (AAA)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries		Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur	ignment ignment unt nbers: 3K				
Authorisation and Accounting (AAA)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling	Switch	Port-Ba Port-Ba Ri	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accoi 4K Egress: 1K, VLAN Access Map Nur 66, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt nbers: 3K	Defined)			
Authorisation and Accounting (AAA)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL	Switc	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur	ignment ignment unt nbers: 3K lass, IPv6 Flow Label, Payload (User-				
Authorisation and Accounting (AAA)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard	Switd —	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accoi 4K Egress: 1K, VLAN Access Map Nur 66, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt nbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+)	802.3af (PoE), 802.3at (PoE+)			
Authorisation and Accounting (AAA) Access Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports	Switd 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accoi 4K Egress: 1K, VLAN Access Map Nur 66, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24	802.3af (PoE), 802.3at (PoE+) 48			
Authorisation and Accounting (AAA) Access Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget	Switd 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accoi 4K Egress: 1K, VLAN Access Map Nur 66, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE	Switd — — — — —	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accor 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24	802.3af (PoE), 802.3at (PoE+) 48			
Authorisation and Accounting (AAA) Access Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access	Switch 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accor 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
uthorisation and Iccounting (AAA) Iccess Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access sFlow	Switc 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accord 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+ 48 370 W (740 W with DPS-700 RP			
uthorisation and Icccounting (AAA) Icccess Control Lists (ACL)	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access sFlow SNMP	Switch 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accor 4K Egress: 1K, VLAN Access Map Nur r/6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+ 48 370 W (740 W with DPS-700 RP			
luthorisation and leccounting (AAA) leccess Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access sFlow SNMP DHCP	Switc — — — —	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accord 4K Egress: 1K, VLAN Access Map Nur r/6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+ 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SFlow SNMP DHCP RMON	Switch 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur 66, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SFlow SNMP DHCP RMON TFTP Client	Switch 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur f6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SFlow SNMP DHCP RMON TFTP Client Syslog	Switd 	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPV6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SFlow SSIMP DHCP RMON TFTP Client Syslog Power Supply	 	Port-Ba Port-Ba Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — —	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP ✓			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Ports PoE Power Budget Time-Based PoE Switch Access Slow Slow SNMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption	Switch	Port-Ba Port-Ba Rı Ingress:	ssed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370 W (740 W with DPS-700 RPS)	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access Slow ShMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology	 	Port-Ba Port-Ba Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — —	ssed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accord 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP ✓			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Ports PoE Power Budget Time-Based PoE Switch Access Slow Slow SNMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption	 	Port-Ba Port-Ba Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — —	ssed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accou 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP: ✓			
Authentication, Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and Environment	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access Slow ShMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology	 	Port-Ba Port-Ba Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — —	ssed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass sed, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accord 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP: ✓			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access Silow Silow Silow SIMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology Operating Temperature	 	Port-Ba Port-Ba Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — —	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass source of the state of the	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP: ✓			
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management	MAC-Based Access Control (MAC) Network Access Protection (NAP) Guest VLAN Switch Access Max. ACL Entries ACL Handling Time-Based ACL Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow Silow		Port-Ba Port-Ba R Ingress: Port, VLAN ID, 802.1p, MAC, IPv4, IPv — — — — 63.58 W	ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass ssed, Host-Based, Dynamic VLAN Ass sold, Host-Based, Dynamic VLAN Ass 802.1x NAP, DHCP NAP ADIUS / TACACS+, 4-Level User Accord 4K Egress: 1K, VLAN Access Map Nur r6, DSCP, Port, Protocol, IPv6 Traffic C 	ignment ignment unt mbers: 3K lass, IPv6 Flow Label, Payload (User- 802.3af (PoE), 802.3at (PoE+) 24 370W (740W with DPS-700 RPS) ✓ 469.3 W	802.3af (PoE), 802.3at (PoE+) 48 370 W (740 W with DPS-700 RP ✓ 485 W			

Layer 3 Lite Stackable Gigabite Managed Switches

DGS-3130 Series (with 10G Uplinks)

The DGS-3130 Series is an enhanced Layer 3 Lite Stackable Managed Solution designed to connect end-users in a secure SMB or enterprise network, which is perfect for businesses that require a high level of network security and maximum uptime. Its comprehensive security features and PoE support makes it suitable for any business environment where manageability, reliability and high port densities are necessary at an affordable price. It includes advanced Quality of Service (QoS), traffic shapping, L2 Multicasting, Robust Security features and IPv6 features which are suitable for next-generation IPv6 networks or triple play applications over Metro Ethernet.



Series include the below models

DGS-3130-30TS

- 10/100/1000BASE-T ports x 24
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4

DGS-3130-305

- SFP ports x 24
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4

DGS-3130-30PS

- 10/100/1000BASE-T PoE ports x 24
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370W PoE Power Budget
- (740W with DPS-700 RPS)*

DGS-3130-54TS

- 10/100/1000BASE-T ports x 48
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4

DGS-3130-54S

- SFP ports x 48
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4

DGS-3130-54PS

- 10/100/1000BASE-T PoE ports x 48
- 10GBASE-T ports x 2
- 10 Gigabit SFP+ ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370W PoE Power Budget (740W with DPS-700 RPS)*

Key Series Features

- 80G Physical Stacking Bandwidth, up to 9 units
- Optional Redundant Power Supply
- IEEE 802.3x flow control, HOL blocking prevention flow control
- Comprehensive Security
- Supports Microsoft NAP
- sFlow
- Loopback Detection (LBD)
- Link aggregation
- Port mirroring
- 8 queues per port
- DSCP
- 802.1p
- Bandwidth control
- Queue handling
- Time-based QoS
- ERPS multi ring / sub-ring*
- Policy based route*
- IGMP / OSPF*
- Carrier grade OAM 802.1ag / Y.1731 CFM*
- PD Alive*
- ACL expert access group*
- Support in Firmware R1.10

Optional Accessories

 Optional Redundant Power Supply

 DPS-500A
 140 W AC Redundant Power Supply for DGS-3130-305/TS, DGS-3130-545/TS

 DPS-700
 589W Redundant Power Supply for DGS-3130-30P5/54PS

Optional 10 Gbp	s SFP+ Direct Attach Cables
DEM-CB100S	10 Gigabit SFP+ 1 m Direct Attach Cabl
DEM-CB300S	10 Gigabit SFP+ 3 m Direct Attach Cabl
DEM-CB700S	10 Gigabit SFP+ 7 m Direct Attach Cabl

			NC	DN POE		PC			
MODEL		DGS-3130-30TS	DGS-3130-305	DGS-3130-54TS	DGS-3130-54S	DGS-3130-30PS	DGS-3130-54PS		
	Gigabit Ethernet	24		48		24 (PoE)	48 (PoE)		
1. t t	SFP Slots		24		48				
Interfaces	10GBASE-T	2	2	2	2	2	2		
	10 Gigabit SFP+ Slots	4	4	4	4	4	4		
	Stackability		Vi	irtual Stacking of up to 32 Unit	s; Physical Stacking of up to 9	Units			
	Stacking Speed			Up to 80 Gb	ops full duplex				
	Switching Capacity	168 Gbps	168 Gbps	216 Gbps	216 Gbps	168 Gbps	216 Gbps		
General Features	Max Packet Forwarding Rate	125 Mpps	125 Mpps	161 Mpps	161 Mpps	125 Mpps	161 Mpps		
	Packet Buffer Memory	2 MB	2 MB	4 MB	4 MB	2 MB	4 MB		
	MAC Address Table				5,000				
	Flow Control				I, HOL Blocking Prevention				
	Jumbo Frame				6 Bytes				
	Loop Protection				Iw, 802.1s, ERPS				
	802.3ad Link Aggregation				abit Ports per Group				
Layer 2 Features	Port Mirroring		Une-to-Une	, Many-to-One, Mirroring for T		lirroring, RSPAN			
	Loopback Detection				1				
	Cable Diagnostics				16				
	IP Interfaces Routing Protocols				16 v1/v2 PIPpg				
Layer 3 Features	J				v1/v2, RIPng				
	Policy-Based Routing VRRP				J J				
	VLANs				✔ 6 Static				
	GVRP				Dynamic				
Virtual LAN (VLAN)	Protocol VLAN (802.1v)								
	Double VLAN (Q-in-Q)				d / Selective				
	Groups				024				
Layer 2 Multicasting	Protocols				v3, MLD Snooping v1/ v2				
	Standard				Ip, DSCP				
	Number of Queues				8				
Quality of Service (QoS)	Mode	8 Strict / WRR / Strict+WRR / DRR							
	CoS Handling	SURCE / WKK / SURCE + WKK / DKK VLAN ID, 802.1p Priority Queue, MAC, IPv4/v6 Address, Ether Type, DSCP, TCP/UDP Port, Protocol Type, IPv6 Traffic Class, IPv6 Flow Label, User-Defined Packet Content							
	Bandwidth Control			ess, min. granularity 8 kbps), P					
	STP Security				, Root Restriction	<i>y y y y</i>			
	Port Security				1				
	DoS Attack Prevention								
	Storm Control	Broadcast / Multicast / Unicast							
Security	IP-MAC-Port Binding								
	DHCP Server Screening				1				
	ARP Spoofing Prevention				1				
	Traffic Segmentation				✓				
	D-Link SafeGuard Engine				✓				
	802.1x Authentication				amic VLAN/ACL/QoS Assignme				
Authentication,	Web-Based Access Control (WAC)				amic VLAN/ACL/QoS Assignme				
Authorisation and	MAC-Based Access Control (MAC)				amic VLAN/ACL/QoS Assignme	nt			
Accounting (AAA)	Network Access Protection (NAP)				AP, DHCP NAP				
	Guest VLAN								
	Switch Access				, 4-Level User Account				
Annual Control III - 1980	Rules	F.1. T. 10 1		8 Profiles, 2048 Rules per Profi			for all Deals of Contract		
Access Control Lists (ACL)	ACL Handling	Ether Type, VLAN ID	, 802. IP Priority, MAC, IPV4	/v6 Address, DSCP, TCP/UDP Po		lass, IPV6 Flow Label, User-De	anned Packet Content		
	Time-Based ACL				✓	802.3af (PoE)	802.3af (PoE)		
	Standard					802.3at (PoE+)	802.3at (PoE+)		
	PoE Ports					24	48		
Power over Ethernet						370 W	370 W		
	PoE Power Budget					(740 W with DPS-700 RPS)	(740 W with DPS-700 RPS)		
	Time-Based PoE					✓	✓		
	Switch Access				, Telnet, Console				
	sFlow, TFTP Client, Syslog				1				
Management	SNMP				v2c/v3				
	DHCP				lient, Relay				
	RMON				l / v2				
	Power Supply				th RPS Option				
Number 1	Power-Saving Technology				Baz Energy-Efficient Ethernet				
Physical and Environment	Operating Temperature				to 50°C				
	Operating Humidity	440	441		Non-Condensing	441	441		
		440 x 250 x 44 mm	441 x 250 x 44 mm	441 x 290 x 44 mm	441 x 350 x 44 mm	441 x 350 x 44 mm	441 x 350 x 44 mm		
	Dimensions (W x D x H) 10 Gigabit SFP+ Transceivers		T DD DEM 433YT DEM 433Y	XT-DD, DEM-433XT, DEM-433X1					

Metro Ethernet Gigabit Layer 2 Managed Switches

DGS-3000 Series (with 10G Uplinks^{*})

The DGS-3000 Series Managed Gigabit Switches are part of the Layer 2+ family of D-Link's managed switch product line that provides wired Gigabit speeds for Metro Ethernet and campus networks. They feature a variety of ports, including 10/100/1000BASE-T RJ-45 ports, 1G SFP ports, and 10G SFP+ ports for increased network bandwidth.DGS-3000 Series supports up to 6 kV surge protection on all Ethernet ports, advanced Layer 2+ functions, and a suite of security and management tools make the DGS-3000 Series Managed Gigabit Switches ideal for Metro Ethernet and campus applications. The DGS-3000 Series Managed Gigabit Switches come with a variety of port types, including 1 G RJ-45 ports, 1 G SFP ports, and 10G SFP+ ports, with all models offering a minimum of at least 2 1 G SFP ports. The DGS-3000-28X, DGS-3000-28XS, and DGS-3000-52X offer 4 10G SFP+ ports for improved bandwidth and fault tolerance. The DGS-3000-28LP and DGS-3000-28XMP switches feature Power over Ethernet (PoE), allowing compatible devices to be installed in remote locations without immediate access to power outlets.



Series include the below models

- DGS-3000-10L
- 10/100/1000BASE-T port X 8
- SFP port x 2
- 11 inch,1U rack mount

Fanless

DGS-3000-20L

- 10/100/1000BASE-T port X 16
- SFP port x 4 • 11 inch,1U rack mount
- Fanless
- DGS-3000-28L
- 10/100/1000BASE-T port X 24

• SFP port x 4

- 19 inch,1U rack mount
- Fanless

DGS-3000-28LP

- 10/100/1000BASE-T PoE port X 24
- SFP port x 4 IEEE 802.3af/802.3at
- 193W PoE Power Budget
- 19 inch, 1U rack mount
- 2 x Smart Fan

DGS-3000-28X

- 10/100/1000BASE-T port X 24
- 10G SFP+ port x 4
- 19 inch,1U rack mount
- Smart Fan
- 10G SFP+ port x 4 • 19 inch,1U rack mount
 - 2 x Smart Fan

• 2 x Smart Fan

DGS-3000-28XS

• SFP port x 24

DGS-3000-28XMP

• IEEE 802.3af/802.3at

• 370W PoE Power Budget

19 inch 1U rack mount

DGS-3000-52L

- 10/100/1000BASE-T PoE port X 24 10/100/1000BASE-T port • 10G SFP+ port x 4
 - X 48
 - SFP port x 4
 - 19 inch,1U rack mount
 - 2 x Smart Fan

DGS-3000-52X

- 10/100/1000BASE-T port
- X 48
- 10G SFP+ port x 4 • 19 inch,1U rack mount
- 2 x Smart Fan

Optional Accessories

Optional 10 Gigabit Ethernet SFP+ Direct Attach Cables (DGS-3000-28X, 28XMP, 28XS, and 52X only)

- DEM-CB100S 10G SFP+ 1 m Direct Attach Cable
- DEM-CB300S 10G SFP+ 3 m Direct Attach Cable
- DEM-CB700S 10G SFP+ 7 m Direct Attach Cable

Optional Redundant Power Supplies

- DPS-500A 140 W Redundant Power Supply (Alternating Current)
- DPS-500DC 140 W Redundant Power Supply (Direct Current)
- DPS-CB150-2PS v.B1 150 cm RPS cable for connecting the DGS-3000 Series with the DPS-500A and DPS-500DC

Optional Management Software

DV-700 D-View 7 Network Management System DV-800 D-View 8 Network Management System

Key Series Features

- 6 kV surge protection for Ethernet ports
- Real Time Clock (RTC)
- Dying Gasp
- Ethernet Ring Protection Switching (ERPS)
- Redundant Power Supply (RPS) support
- VLAN trunking
- VLAN mirroring
- ISM VLAN (Multicast VLAN)
- RSPAN
- Access Control Lists (ACLs)
- D-Link Safeguard Engine
- BPDU attack protection
- ARP spoofing prevention
- IP-MAC-Port Binding
- DoS attack prevention
- IEEE 802.1X port-based Access Control
- WAC/MAC-based Access Control
- Guest VLAN
- 802.1ag CFM
- 802.3ah Ethernet Link OAM
- SNMP v1/v2c/v3
- RMON v1/v2
- LLDP/LLDP-MED





SWIICHES					
					NON POE
MODEL		DGS-3000-10L	DGS-3000-20L	DGS-3000-28L	DGS-3000-28X
	Gigabit Ethernet	8	16	24	24
Interface	SFP Slots	2	4	4	_
	10 Gigabit Slots SFP+	—	—	—	4
	Stackability				
	Stacking Speed (per Port)				
	Switching Capacity	20 Gbps	40Gbps	56Gbps	128Gbps
General Features	Forwarding Mode				
	Packet Buffer Memory				
	MAC Address Table				
	Flow Control MDI/MDIX				
	Loop Protection				
	803.2ad Link Aggregation				
Layer 2 Features	Port Mirroring				
	Loopback Detection				
	Cable Diagnostics				
	VLANs				
Virtual LAN (VLAN)	GVRP				
Virtual Entry (VENT)	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
Multicasting	Groups				
	Protocols				IGMP
	Standard				
Quality of	No. of Queues Mode				Strict
Service (QoS)	Mode CoS Handling			802 1n Pri	Strict iority Queues, VLAN ID, MAC Address, Ether Type,
	Bandwidth Control			002.1711	טוונץ עובעבט, עבאוע וע, ואתר תעמובטט, בנווכר וואר,
	STP Security				
	Per-Port MAC Limitation				
	Static MAC				
	Storm Control				
Security	IP-MAC-Port Binding				
	DHCP Server Screening				
	ARP Spoofing Prevention				
	Traffic Segmentation				
	D-Link SafeGuard Engine				
	Standard	—	—		—
Power over Ethernet	PoE Ports	_	_		_
	PoE Power Budget	_	-		-
	Switch Access				
	sFlow				
	SNMP				
Management	DHCP				
	RMON TFTP Client				
	Syslog				
	Power Supply				
	Maximum Power	13.6 W	15.6W	17.6W	220.1W
	Consumption				
Physical and	No of Fans	Fanless	Fanless	Fanless	1
Environment	Operating Temperature				
	Operating Humidity Dimensions (W x D x H)	280 x 140 x 44 mm	280 x 140 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm
	Mean Time Between				
	Failures (MTBF)	841,608 Hours	762,952 Hours	635,099 Hours	652,062 Hours
Modules/	SFP Transceivers				
Transceivers	10GbE SFP+ Transceivers				DEM-431XT, DEM-431XT-DD, DEM-432XT,
	WDM SFP Transceivers				

			P	OE
DGS-3000-28XS	DGS-3000-52L	DGS-3000-52X	DGS-3000-28LP	DGS-3000-28XMP
—	48	48	24 (PoE)	24 (PoE)
24	4	4	4	
4 Virtual Stacking of up to 32 Units	_	4	_	4
128Gbps	104Gbps	176Gbps	56Gbps	128Gbps
Store-and-Forward				
1.5 MB				
16,000				
EEE 802.3x Flow Control, HOL Blocking Preventic	n			
Configurable 802.1D, 802.1w, 802.1s, ERPS				
802.3ad 802.1AX				
e-to-One, Many-to-One, Flow-based (ACL) Mirro	ring			
1				
4K				
✓				
1				
✓				
1024				
'v2 snopping, v3 awareness, MLD v1, v2 a	wareness			
DSCP, 802.1p				
DSCP, 802.1p 8				
DSCP, 802.1p 8 prity Queue (SPQ), Weighted Round Robin ('	WRR), SPQ + WRR	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Flow Label,	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Flow Label,	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 ority Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction 512	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 √	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 7 512 7	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 writy Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 6 7 7 7 7 7 7 7 7 7 7 7 7 7	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content		
DSCP, 802.1p 8 vrity Queue (SPQ), Weighted Round Robin (' 4/v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 7 512 7	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content	802 3af (PoF)	802 3af (PoF)
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, prt-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 512 512 512 512 512 512 512	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, prt-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 512 512 512 512 512 512 512	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, vrt-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512 7 512 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt	cket Content	802.3at (PoE+)	802.3at (PoE+)
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, /vrt-Based, Host-Based, Dynamic VLAN assignme BPDU Filtering, Root Restriction 512 512 512	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, ort-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction 512 512 512 512 512 512 512 512 512 51	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, /vt-Based, Host-Based, Dynamic VLAN assignmed BPDU Filtering, Root Restriction S12 S12 S12 S12 Web GUI, Telnet, SSH, Console Web GUI, Telnet, SSH, Console	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin ('' rity Queue (SPQ), Weighted Round Robin ('' robin ('' Address, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ S12 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 ity Queue (SPQ), Weighted Round Robin ('////////////////////////////////////	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 ity Queue (SPQ), Weighted Round Robin (' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction 512 512 512	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 ity Queue (SPQ), Weighted Round Robin ('' /v6 Address, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ 512 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓<	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — —	cket Content	802.3at (PoE+) 24	802.3at (PoE+) 24
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin ('' rity Queue (SPQ), Weighted Round Robin ('' v6 Address, IPv6 Traffic Class, IPv6 Flow Label, vrt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction v S12 v S12 v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — —		802.3at (PoE+) 24 193W	802.3at (PoE+) 24 370W
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin ('' rity Gadress, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ S12 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —	40.7W	802.3at (POE+) 24 193W 246.5W	802.3at (PoE+) 24 370W 445.2W
DSCP, 802.1p 8 rity Queue (SPQ), Weighted Round Robin ('' rity Gaddress, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ S12 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ <td< td=""><td>WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — —</td><td></td><td>802.3at (PoE+) 24 193W</td><td>802.3at (PoE+) 24 370W</td></td<>	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — —		802.3at (PoE+) 24 193W	802.3at (PoE+) 24 370W
DSCP, 802.1p 8 ity Queue (SPQ), Weighted Round Robin ('' Vó Address, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ 512 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ </td <td>WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —</td> <td>40.7W</td> <td>802.3at (POE+) 24 193W 246.5W</td> <td>802.3at (PoE+) 24 370W 445.2W</td>	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —	40.7W	802.3at (POE+) 24 193W 246.5W	802.3at (PoE+) 24 370W 445.2W
DSCP, 802.1p	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —	40.7W 2	802.3at (PoE+) 24 193W 24 246.5W 246.5W 2	802.3at (PoE+) 24 370W 445.2W
DSCP, 802.1p 8 ity Queue (SPQ), Weighted Round Robin ('' Vó Address, IPv6 Traffic Class, IPv6 Flow Label, rt-Based, Host-Based, Dynamic VLAN assignment BPDU Filtering, Root Restriction ✓ 512 ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ </td <td>WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —</td> <td>40.7W</td> <td>802.3at (POE+) 24 193W 246.5W</td> <td>802.3at (PoE+) 24 370W 445.2W 2</td>	WRR), SPQ + WRR DSCP, Protocol Type, TCP/UDP Port, User-Defined Pa nt — — — — — — — — — — — — — — — — — —	40.7W	802.3at (POE+) 24 193W 246.5W	802.3at (PoE+) 24 370W 445.2W 2

DEM-330T, DEM-330R, DEM-331T, DEM-331R

Layer 3 Stackable Gigabit Smart Managed Switches DGS-1520 Series (with 2.5G PoE + 10G Uplinks)

The DGS-1520 Series, a new generation Layer 3 Stackable Smart Managed Switches, includes four 10 GB ports for uplink or stacking up to a total of eight switches with a total of 80 Gigabit stacking bandwidth. Designed for effortless multi-site network deployments with Zero Touch Provisioning, the DGS-1520 Series is also powerful enough for server and storage applications. For unrestricted Wi-Fi 6 edge device capabilities, PoE models offer four 2.5 GB Base-T ports for Multi-Gigabit connectivity. For SMBs with expanding networks and significant bandwidth growth, the DGS-1520 effortlessly adds highly cost-effective 10 GB connectivity to ensure seamless aggregation between access and core layers.



Series include the below models

DGS-1520-28

• 10/100/1000 Base-T ports x 24 10G Base-T ports x 2 10G SFP+ ports x 2

DGS-1520-28MP

- 10/100/1000 Base-T PoE ports x 20 2.5G Base-T PoE ports x 4 10G Base-T ports x 2 10G SFP+ ports x 2
- 370W, 740W (with RPS)

Optional Products

nal SFP Transceive 310GT 1000BASE-LX, single-mode, 10 km DEM-311GT 1000BASE-SX, multi-mode, 550 m DEM-312GT2 1000BASE-SX, multi-mode, 2 km DEM-314GT 1000BASE-LHX, single-mode, 50 km DEM-315GT 1000BASE-ZX, single-mode, 80 km DGS-712 1000BASE-T to SFP transceiver

Optional WDM SFP Transceivers DEM-330T 1000BASE-LX, Wavelength Tx:1550 nm Rx:1310 nm, Single-mode, 10 km DEM-330R 1000BASE-LX, Wavelength Tx:1310 nm Rx:1550 nm, Single-mode, 10 km DEM-331R 1000BASE-LX, Wavelength Tx:1550 nm Rx:1310 nm, Single-mode, 40 km DEM-331R 1000BASE-LX, Wavelength Tx:1310 nm Rx:1550 nm, Single-mode, 40 km

Optional SFP+ Transceivers DEM-431XT 10GBASE-SR Multi-mode, OM1:33M/OM2:82M/OM3:300M (w/o DDM) DEM-432XT 10GBASE-LR Single-mode, 10 km (w/o DDM) DEM-433XT 10GBASE-ER Single-mode, 40 km (w/o DDM) DEM-434XT 10GBASE-ZR Single-mode, 80 km (w/o DDM) DEM-436XT-BXD 10GBASE-LR Single-mode, 20 km (TX-1330/RX-1270 nm) (w/o DDM) DEM-436XT-BXU 10GBASE-LR Single-mode, 20 km (TX-1270/RX-1310 nm) (w/o DDM)

DGS-1520-52

• 110/100/1000 Base-T ports x 48 10G Base-T ports x 2 10G SFP+ ports x 2

DGS-1520-52MP

- 10/100/1000 Base-T PoE Ports x 44 2.5G Base-T PoE Ports x 4 10G Base-T Ports x 2 10G SFP+ Ports x 2
- 370W, 740W (with RPS)

onal SFP+ Direct Attach Stacking Cables DEM-CB100S 1 m 10G SFP+ Direct Attach Cable (DAC) DEM-CB300S 3 m 10G SFP+ Direct Attach Cable (DAC) DEM-CB700S 7 m 10G SFP+ Direct Attach Cable (DAC)

Optional Redundant Power Supplies DPS-520 PoE Redundant Power Supply for Non-PoE Models only DPS-700 AC Redundant Power Supply for PoE Models only

Key Series Features

- 24 or 48 x 10/100/1000Base-T ports
- 20 or 44 x 10/100/1000Base-T PoE and 4 x 2.5GBase-T PoE
- 2 x 10GBase-T and 2 x SFP+ uplink ports
- Physical Stacking of up to 8 units
- 2 x 10GBase-T and/or 2 x SFP+
- 80 Gbps physical stacking bandwidth
- Hybrid Stacking
- RSPAN
- Selective Q-in-Q
- IGMP v1/v2/v3
- MLD v1/v2
- PIM-SM/DM/SSM
- Static Route
- RIP/RIPng
- OSPF
- Ethernet Ring Protection Switching (ERPS)
- Virtual Router Redundancy Protocol (VRRP)
- Redundant Power Supply (RPS) support
- D-View 7
- D-Link Network Assistant (DNA)
- Zero Touch Provisioning (ZTP)

D-Link DGS-1520 Series Multi-Gigabit Smart Managed Switch

The DGS-1520 Series feature four 10-Gigabit ports (two 10GBASE-T & two SFP+) for **01.** Stackable high-speed uplink or stacking up to eight DGS-1520 switches with a total of 80G stacking bandwidth using hybrid mode (copper and fiber). SMBs can quickly add **Scalability** cost-effective 10 Gigabit aggregation to the network infrastructure with flexible stacking scalability.

- PoE models of the DGS-1520 Series provide power (up to a total of 370W per switch, **02.** Multi-Gigabit or 740W with the DPS-700 redundant power supply) to PoE-enabled devices and & PoE offer the convenience of 4 multi-Gigabit ports to accommodate Wi-Fi 6 (802.11ax) access points or network services that require more than Gigabit bandwidth, such as video surveillance systems.
- The DGS-1520 Series with Zero Touch Provisioning are designed for automated and **03.** Zero Touch effortless multi-site network expansions, saving time and configuration costs to **Provisioning** lower your budget significantly. Simply upload switch configurations from a central location and install the DGS-1520 Series onto the network for swift deployment and sound network auditing.
- Remotely manage multiple wired/wireless networks with the D-View 7 management **04.** Simplified platform from one central location to reduce maintenance costs. D-Link Network Central Assistant (DNA) is also available to easily set up and manage smaller networks. Management

05. Power **Redundancy**

Connect a DPS-520 redundant power supply via management port to enhance network reliability (non-PoE models only). In the event of an internal PSU failure, the redundant power supply is immediately triggered to maintain uninterrupted operation of the LAN switch and its connected devices for a more resilient network infrastructure.



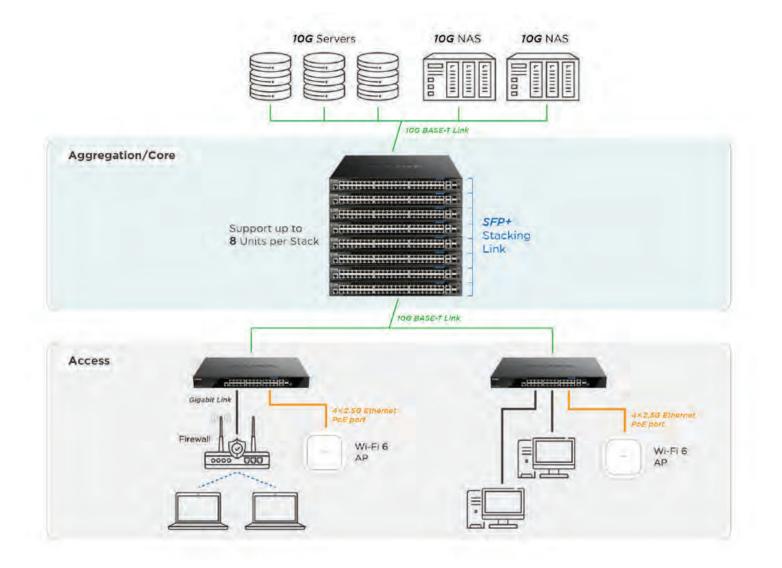








D-Link DGS-1520 Series Multi-Gigabit Smart Managed Switch (Cont'd)



MODEL		NON POE DGS-1520-28	POE DGS-1520-28MP	NON POE DGS-1520-52	POE DGS-1520-52MP					
	Gigabit Ethernet	24	24 (PoE)	48	48 (PoE)					
	10GBase-T Port 1000Base-T PoE Port	2	2 20	2	2 44					
nterfaces	2.5Base-T PoE Port 10G SFP+ Slot	- 2	4 2	- 2	4					
	Console Port RJ-45 Management Port	Yes (DPS-520 only)	P	RJ-45 Yes (DPS-520 only)						
	Stackability	Physical Stacking of up to 8 units								
	Physical Stacking Bandwidth Hybrid Stacking	80G 10GBase-T and SFP+								
eneral Features	Switching Capacity Max. Packet Forwarding Rate	1286bps 1406bps 1766bps 1886bps 95.24 Mpps 104.16 Mpps 130.95 Mpps 139.88 Mpps								
elleral realures	Forwarding Mode MAC Address Table			and-forward 16,000						
	Jumbo Frame Flow Control		122	288 Byte						
	MDI/MDIX	802.3x,HOL Blocking Prevention Configurable								
	Loopback Detection (LBD) 802.3ad Link Aggregation			<i>v</i> <i>v</i>						
ayer 2 Features	Port Mirroring L2 Protocol Tunneling		1							
	IGMP Snooping Cable Diagnostics									
	IGMP Snooping	IGMP v1/v2/v		nooping Fast Leave, Supports 128 static IGMP groups, Per VLAN IG	iMP Snooping,					
2 Multicast		MLD v1/		looping Querier, Report Suppression ooping Fast Leave, Supports 64 static MLD groups, MLD Snooping	J Querier,					
	MLD Snooping IP Interface		Per VLAN MLD Snoopi	ning, MLD Proxy Reporting						
	IPv4 Entries / Static ARP			92/256						
ayer 3 Features	Gratuitous ARP Loopback interface			✓ ✓						
	VRRP v2/v3 Hardware routing			1024						
	IPv4/IPv6 Static route IPv4/IPv6 Default route		51	12/256						
	Equal-Cost Multi-Path Route (ECMP)			1						
ayer 3 Routing	Weighted-Cost Multi-Path Route (WCMP) Policy-based Route (PBR)			<i>v</i> <i>v</i>						
	Route Preference Route Redistribution									
	RIPv1/v2/ng OSPF		OSPE v2/v3. OSPE passive interface Stub/NSSA area Support	rts Equal-Cost Multi-Path Route (ECMP), Text/MDS authentication	1					
Multicasting	L3 Multicasting		//P v1/v2/v3, IGMP Proxy, MLD v1/v2, MLD proxy, DVMRP v3, F	PIM Sparse-Dense Mode (PIM-SDM), PIM-SM/DM/SSM for IPv4/						
	VLAN Group VID		1~	4K ~4094						
	Double VLAN (Q-in-Q) Selective Q-in-Q		Port-ba	ased Q-in-Q ✓						
	802.1Q Auto Surveillance VLAN			J J						
	Port-based VLAN			1						
rtual LAN (VLAN)	802.1v Protocol-based VLAN Voice VLAN			√ √						
	MAC-based VLAN Subnet-based VLAN									
	VLAN translation Multicast VLAN (ISM VLAN for IPv4/IPv6)									
	Asymmetric VLAN									
	Private VLAN VLAN Trunking			√ √						
	Super VLAN 802.1p									
	Queue Handling CoS based on	Switch nort Inner/O	Strict Priority, Weighted Round Robin (WRR), St uter VID: Inner/Outer 802: In Priority: MAC address: Ether tyne: IP ac	Strict + WRR, Weighted Deficit Round Robin (WDRR) ddress, DSCP, ToS/IP preference, Protocol type, TCP/UDP port, IPv6 traffi	r class IPv6 flow label					
uality of Service (QoS)	Bandwidth Control		ort-based (ingress/egress), min. granularity 8 Kbps); Flow-based	d (ingress/egress, min. granularity 8 Kbps); Per queue bandwidth cor						
	Three Color Marker		(min, granulatity & Kols)" CR/PR minimum granularity: 8 kbs; trTCM Supports un to 4 MK addresses per port							
	Port Security D-Link Safeguard Engine									
	DHCP Server Screening IP Source Guard									
	DHCP Snooping									
	Dynamic ARP Inspection (DAI)									
	DHCPv6 Guard IPv6 Route Advertisement (RA) Guard									
ecurity	IPv6 ND Inspection Duplicate Address Detection (DAD)									
	ARP Spoofing Prevention L3 Control Packet Filtering	Max. 64 entries								
	Unicast Reverse Path Forwarding (URPF)									
	Traffic Segmentation SSL	"ILS 1.0/1.1/1.2, IPv4/IPv6 access								
	SSH BPDU Attack Protection	SSH v2, Supports TPV/TPV6 access Yes								
	DOS Attack Prevention Guest VLAN	Yes								
	802.1X Authentication	Yes Port/host-based access control, Identity-driven Policy Assignment, Dynamic VLAN Assignment Port host based access control, Identity-driven Policy Assignment, Dynamic VLAN Assignment								
uthentication, Authorisation and	Web-based Access Control (WAC) MAC-based Access Control (MAC)	Port/host-based access control, Identity-driven Policy Assignment, Dynamic VLAN Assignment Port/host-based access control, Identity-driven Policy Assignment, Dynamic VLAN Assignment								
ccounting (AAA)	RADIUS and TACACS+ Authentication Authentication Database Failover									
	Compound Authentication Privilege Level for Management Access									
	Trusted Host									
	RADIUS/TACACS+ Accounting ACL based on	802.1p priority, VID, M	IAC address, Ether Type, LLC, VLAN, IP address, IP preference/1	ToS, DSCP mask, Protocol type, TCP/UDP port number, IPv6 Traffie	c Class, IPv6 Flow Label					
construct the (ACL)	Time-based ACL CPU Interface Filtering									
ccess Control Lists (ACL)	Max. ACL entries		Ingress (hardw	ware entries): 1536 ware entries): 512						
			VLAN Access M	Лар Numbers: 2048						
	Web-Based GUI CLI		IPv4/IPv6 acc	ccess, SSL (HTTPS) ✓						
	sFlow SNMP									
anagement	DHCP RMON									
	TFTP									
	D-Link Discover Protocol (DDP) SMTP									
	Zero Touch Provisioning (ZTP) Dimension	441 x 207.4 x 44 mm	441 x 308.5 x 44 mm	✓ 441 x 207.4 x 44 mm	441 x 308.5 x 44 mm					
	Weight Operation Temperature	2.33 Kg -5 ~ 50℃	4.29 Kg −5 ~ 50°C	2.78 Kg −5 ~ 50°C	4.80 Kg -5 ~ 50°C					
	Storage Temperature	-40 ~ 70°C	-40 ~ 70°C	-40 ~ 70°C	-40 ~ 70°C					
hysical and nvironment	Operation Humidity Storage Humidity	10% ~ 95% RH 5% ~ 95% RH	10% ~ 95% RH 5% ~ 95% RH	10% ~ 95% RH 5% ~ 95% RH	10% ~ 95% RH 5% ~ 95% RH					
	Operating Altitude Maximum Power Consumption	Up to 2000 m 30.4W	Up to 2000 m 453.3W (PoE On); 45.2W (PoE Off)	Up to 2000 m 51.2W	Up to 2000 m 459.5W (PoE On); 66.3W (PoE Off)					
	Standby Power Consumption Power Input	20.9W/100V; 21.5W/240V	37.2W/100V; 37.3W/240V	25.5W/100V; 26.8W/240V	39.8W/100V; 40.7W/240V 100 - 240 VAC					
	Redundant Power Supply	DP5-520 DP5-700 DP5-520 DP5-7								
	Maximum PoE Budget SFP transceivers	-		- IGT2 , DEM-314GT, DEM-315GT , DGS-712	370W (w/o RPS); 740W (w/ RPS)					
		DEM-330T, DEM-330T, DEM-330T, DEM-331T, DEM-331R DEM-431XT, DEM-432XT, DEM-433XT, DEM-434XT, DEM-436XT-BXU								
lodules/ Transceivers	WDM SFP Transceivers SFP+ Transceivers									

Layer 2+ Stackable Gigabit Smart Managed Switches

DGS-1510 Series (with 10G Uplinks)

With up to 48 1000BASE-T ports, two Gigabit SFP ports and two 10 Gigabit SFP+ ports, along with PoE support, the DGS-1510 Series is ideal for deployment in an SME/ SMB core. Add to that the 10 Gigabit uplinks to connect with servers equipped with 10G port connectivity, and the DGS-1510 serves as a good interconnection between the core switch and edge switch for medium- to large-scale enterprise deployment.

If you're looking for PoE capability, the DGS-1510-28P is your perfect partner for powering VoIP phones, wireless access points or network cameras, thanks to 24 Power over Ethernet-enabled ports that can support up to 193 W of power output following the enhanced IEEE 802.3at PoE+ standard. This switch therefore offers the ideal balance between flexibility in power allocation for a variety of powered devices and affordable installation costs.



Series include the below models

DGS-1510-20

- 10/100/1000BASE-T ports x 16
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2
- Smart fan

DGS-1510-28

- 10/100/1000BASE-T ports x 24
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2
- Smart fans

DGS-1510-28P

- 10/100/1000BASE-T PoE ports x 24
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Smart fans

DGS-1510-52

- 10/100/1000BASE-T ports x 48
- SFP ports x 2
- 10 Gigabit SFP+ ports x 2
- Smart fans

DGS-1510-28XMP

- 10/100/1000BASE-T PoE port x 24
 - 10GbE SFP+ ports x 4
 - 802.3af and 802.3at PoE/PoE+ support
 - 370W PoE power budget Smart fans

DGS-1510-28X

- 10/100/1000BASE-T port x 24
- 10G SFP+ Ports x 4
- Smart fan

DGS-1510-28XS

- SFP ports x 24
- 10G SFP+ ports x 4
- Smart Fan

Key Series Features

- 10 Gigabit connectivity
- Physical stacking via two 10 Gigabit ports, with stacking for up to six devices
- Single IP management (virtual stacking of up to 32 units)
- Static routing
- IPv6 management support
- Auto surveillance VLAN
- Auto voice VLAN
- Loopback Detection (LBD)
- Configurable MDI/MDIX
- LLDP/LLDP-MED
- Access Control List (ACL)
- D-Link SafeGuard Engine
- Port security
- ARP spoofing prevention
- IP-MAC-port binding
- DoS attack prevention
- D-Link Network Assistant Utility or multi-language web-based GUI
- Built-in SNMP MIB for remote NMS (D-View 7)
- Full CLI via console port
- IPv4/IPv6 stack
- Dual image
- IEEE 802.3az Energy Efficient Ethernet
- D-Link Green[™] 3.0 power-saving features

Optional Accessories

 Optional 10 Gbps SFP+ Direct Attach Stacking Cables

 DEM-CB100S
 10 Gigabit SFP+ 1 m Direct Attach Stacking Cable

 DEM-CB300S
 10 Gigabit SFP+ 3 m Direct Attach Stacking Cable

 DEM-CB700S
 10-GbE SFP+ 7 m Direct Attach Stacking Cable

Optional Management Software

 DV-700
 D-View 7 Network Management System

 DV-800
 D-View 8 Network Management System

ries		
h Stacking Cables		

SWITCHES 35

								Territor concernments		
MODEL		DGS-1510-20	NON DGS-1510-28X	DGS-1510-28XS	DGS-1510-52X	DGS-1510-28P	POE DGS-1510-28XMP	DGS-1510-52XMP		
	Gigabit Ethernet	16	24	_	48	24 (PoE)	24 (PoE)	48 (PoE)		
Interfaces	SFP Slots	2	—	24	—	2	—	—		
	10 Gigabit SFP+ Slots	2	4	4	4	2	4	4		
	Stackability	Virtual Stacking of up to 32 units; Physical Stacking of up to 6 units								
	Stacking Speed (per Port) Switching Capacity	20 Gbps (Full Duplex) 76 Gbps 128 Gbps 126 Gbps 126 Gbps 176 Gbps								
General	Forwarding Mode	70 0003	120 0005		d-Forward	72 dups	120 0005	170 0005		
Features	Packet Buffer Memory	1.5MB	1.5MB	1.5MB	3MB	1.5MB	1.5MB	3MB		
	MAC Address Table	16,000								
	Flow Control	802.3x, HOL Blocking Prevention								
	MDI/MDIX Loop Protection				Configurable 802.1D, 802.1w, 802.1s					
	803.2ad Link Aggregation				32 Groups, 8 Ports per Group	0				
Layer 2 Features				One	-to-One, Many-to-One, RX/T)					
	Loopback Detection				1					
	Cable Diagnostics				\checkmark					
	IP Interfaces				8					
	Routing Protocols Policy-Based Routing				Static					
Layer 3 Features	Route Balancing				_					
	IPv6 Tunneling				_					
	VRRP				—					
	VLANs				4096 Static					
Virtual LAN (VLAN)	GVRP				✓ 					
(VLAN)	Protocol VLAN (802.1v) Double VLAN (Q-in-Q)				_					
	Groups				512					
Multicasting	Protocols				IGMP v1/v2					
	Standard				802.1p, DSCP					
Quality of	Number of Queues				4					
Service (QoS)	Mode			Strict Priority Queue (SPQ),	-	R), Deficit Round Robin (DRR)				
	CoS Handling Bandwidth Control				802.1p, DSCP Port-Based					
	STP Security									
	Per-Port MAC Limitation				1					
	Static MAC				128					
	Storm Control				Broadcast / Multicast / Unica	st				
Security	IP-MAC-Port Binding DHCP Spoofing Prevention				512 Entries					
	ARP Spoofing Prevention	√ ✓								
	Traffic Segmentation				1					
	D-Link SafeGuard Engine									
Authentication,	802.1x Authentication	Port-Based								
Authorisation	Web-Based Access Control (WAC) MAC-Based Access Control (MAC)									
and Accounting	Network Access Protection (NAP)									
(AAA)	Guest VLAN									
	Switch Access	User Account								
Access Control	Rules	768								
Lists (ACL)	ACL Handling			M	AC, IP, 802.1p, DSCP/IPV6 Add	lress				
	Time-Based ACL Standard	_	_	_	_	802.3af (PoE), 802.3at (PoE+)	802.3af, 802.3at	802.3af, 802.3at		
Power over	PoE Ports	_	_	_	_	24	1-24	1-48		
Ethernet	PoE Power Budget	—	—	—	—	193 W	370 W	370 W (740W w/ DPS-700)		
	Time-Based PoE	—	—	—	—	1	✓	\checkmark		
	Switch Access				Web GUI, Telnet, Console					
	sFlow SNMP				v1/v2c/v3					
Management	DHCP	v1 / v2c / v3 DHCP Client								
,	RMON	Uniter Cheni								
	TFTP Client	\checkmark								
	Syslog				1					
	Power Supply				Internal	220 7 W (D-F)	42(2)W/(D=E ==)	40C O.W. (D.F)		
Physical and	Maximum Power Consumption	20.3 W	22.3W	22.3W	48 W	238.7 W (PoE on) 29 W (PoE off)	436.3 W (PoE on) 38.4 W (PoE off)	486.9 W (PoE on) 58.8 W (PoE off)		
Environment	Power-Saving Technology			I	EEE 802.3az EEE, Green Ether	net				
	Operating Temperature Operating Humidity	−5°C to 50°C 0% to 95% RH Non-Condensing								
	Dimensions (W x D x H)	280 x 180 x 44 mm	440 x 210 x 44mm	440 x 210 x 44mm	440 x 210 x 44 mm		440mm x 308.50mm x44mm	440mm x 308mm x44mm		
Modules/	10 Gigabit SFP+ Transceivers					4XT, DEM-435XT, DEM-435X1				
Transceivers	SFP Transceivers				GT, DEM-312GT2, DEM-314G					
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R								

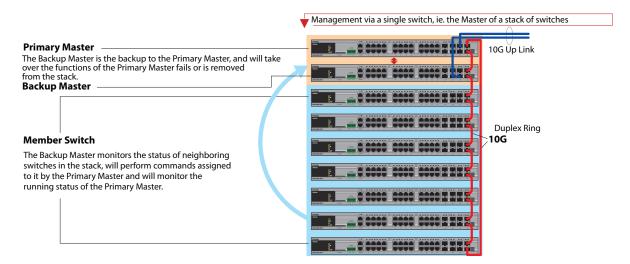
Physical Stacking Among Switches

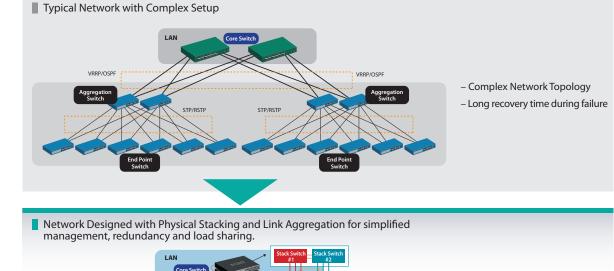
A stackable switch is a network switch that is able to operate as a standalone switch, while they can also be set up to operate together with one or more switches of the same models, which is called Physical Stacking. Physical Stacking allows the switches to work as a single switch, making it easier to manage and configure via a single management interface. Switches supporting physical stacking can operate together or can operate independently. When the switches are stacked together, should one unit in a stack be removed or fail, data will continue to flow through other units that remain functional. With physical stacking, it is easy to increase the total port count and grow the network by adding additional switches as and when needed, while maintaining minimum management complexity.

Models that support physical stacking:

DXS-3610 Series	DGS-3130 Series
DXS-3400 Series	DGS-1520 Series
DGS-3630 Series	DGS-1510 Series

* All models above support physical stacking on the 10G SFP+ Slots via 10G Direct Attach Cable (DEM-CB100S/DEM-CB300S/DEM-CB700S), except DGS-3120 Series where special stacking cables are needed. Please refer to page 59 for details.





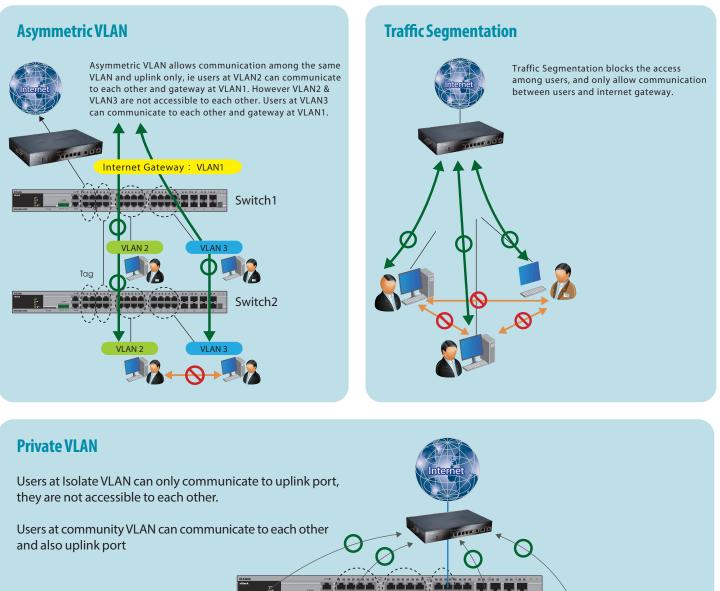
 Simplified Network Topology
 Easily Expandable by adding more switches in the stack
 Reduce System Recovery Time

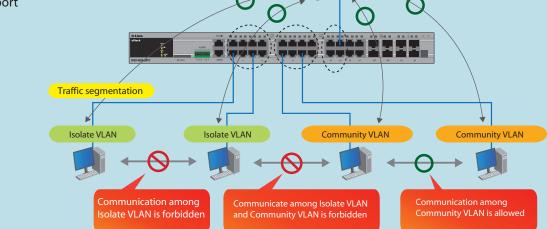
during failure



D-Link Ethernet Switching Solution for Hotels and Service Apartments

It is important to maintain privacy to hotel or service apartment's guests when they access to internet via the provided network. To ensure the communication between each hotel guest room as well as the units in the apartments are blocked, the network administrator may configure port security function to restrict the access of individual port to uplink only. There are 3 ways to achieve it, namely Asymmetric VLAN, Traffic Segmentation and Private VLAN.





Layer 2+ 10G Smart Managed Switches

DXS-1210 Series

D-Link's DXS-1210 Series 10 Gigabit Ethernet Smart Switches are a cost effective 10 GbE switch series capable of servicing a range of network needs in any business. Supporting 10GBASE-T/ SFP+ combo ports, they provide connection flexibility across a network allowing easier network integration. With high performance and low latency the DXS-1210-12TC/12SC can fulfill the needs for virtualization, cloud services and server-to-server applications making it perfect for SMB customers.



Series include the below models

DXS-1210-10TS

- 10GBASE-T ports x 8
- SFP+ports x 2
- Smart fans
- DXS-1210-28T
- 10GBASE-T ports x 24 25G SEP28 x 4
- Smart fans

DXS-1210-12TC • 10GBASE-T ports x 8 • 10G SFP + x^{2}

- - 10GBASE-T/SFP+ combo port x 2 Smart fans

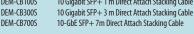
DXS-1210-16TC • 10GBASE-T ports x 12

- 10G SFP+ x 2
- 10GBASE-T/SFP+ combo port x 2 Smart fans

Key Series Features

- Internet Group Management Protocol (IGMP) snooping
- Loopback Detection (LBD)
- Cable diagnostics
- 802.10 virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X access control
- Port security
- Broadcast/multicast/unicast storm control
- D-Link Safeguard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)

Optional Accessories Optional 10 Gbps SFP+ Direct Attach Interconnect Cables DEM-CB100S 10 Gigabit SFP+ 1 m Direct Attach Stacking Cable



Optional Management Software
DV-700 D-View 7 Network Management System

Smart fans

• 10GBASE-T/SFP+ combo port x 2

DXS-1210-28S

- 10G SFP+ x 24
- 10GBASE-T ports x 4
- Smart fans

- DXS-1210-125C
- 10-port 10G SFP+ x 10

SWITCHES 39

		aite sest" a v				6 (111)(111) (111)			
MODEL		DXS-1210-10TS	DXS-1210-12TC	DXS-1210-12SC	DXS-1210-16TC	DXS-1210-28T	DXS-1210-28S		
	10GBASE-T	8	8	—	12	24	4		
nterfaces	SFP+ Slots	2	2	10	2	4 (25G SFP28)	24		
	Combo 10GBASE-T/ SFP+ Slots	—	2	2	2	-	-		
	Stackability		_						
	Stacking Speed (per Port)		_						
	Switching Capacity	200 Gbps	240	Gbps	320 Gbps	680 Gbps	560 Gbps		
eneral eatures	Forwarding Mode		21	Store-and MB	d-Forward	4 MB	4 MB		
atures	Packet Buffer Memory MAC Address Table			32,000	4 MB 32,000				
	Flow Control		16,000 802.3x, HOL Blocking Prevention						
	MDI/MDIX		Configurable						
	Loop Protection		802.1D, 802.1w, 802.1s						
	803.2ad Link Aggregation		Max. 8 groups per device/8 ports per group						
ayer 2 Features	Port Mirroring Loopback Detection		One-to-One, Many-to-One, RX/TX/Both						
	Cable Diagnostics								
25	IP Interfaces		8 IPv	14/v6		4 IP	/4/v6		
ayer 3 Features	Routing Protocols		Static: Max. 64 IPv4 entr	ries, Max. 64 IPv6 entries		Static Max. 128 IP	v4, 64 IPv6 entries		
	VLANs		4000						
	GVRP			•	/				
irtual LAN /LAN)	Protocol VLAN (802.1v)			-	-				
LAN)	Double VLAN (Q-in-Q) Auto Voice VLAN			-	_ /				
	Auto Surveillance VLAN				/				
	Groups		10	100		5	12		
ulticasting	Protocols			IGMP v1/v2/v3 Snoopir	ng, MLD v1/v2 Snooping				
	Standard				o, DSCP				
uality of	Number of Queues				8	(200)			
ervice (QoS)	Mode CoS Handling	Strict Priority Queue (SPQ), Weighted Round Robin (WRR), Deficit Round Robin (DRR) 802.1p, DSCP, TOS, IPv6 Traffic Class, Port, VLAN ID, MAC, IPv4, IPv6, Protocol, IPv6 Flow Label							
	Bandwidth Control		602.1µ, D3C		Based				
	STP Security								
	Per-Port MAC Limitation		Root Restriction						
	Static MAC		1	K		2	56		
o envién.	Storm Control				lticast / Unicast				
ecurity	IP-MAC-Port Binding DHCP Spoofing Prevention			-	/				
	ARP Spoofing Prevention				/				
	Traffic Segmentation				/				
	D-Link SafeGuard Engine		✓ ✓						
	802.1x Authentication		Port-Based, Host-Based, Identity Driven				Port-Base, Host Based		
uthentication,	Web-Based Access Control (WAC)		Port-Based, Host-Based, Identity Driven				-		
uthorisation	MAC-Based Access Control		Port-Based, Host-Based, Identity Driven				_		
nd Accounting	(MAC) Network Access Protection		Port-based, Host-based, Identity Driven						
AAA)	(NAP)		-	—					
	Guest VLAN		-	\checkmark					
	Switch Access	RADIUS / TACACS+							
ccess Control	Rules		256 1024						
ists (ACL)	ACL Handling Time-Based ACL	802.1p, DSCP, IPv6 Traffic Class, Port, VLAN ID, MAC, IPv6, Protocol, IPv6 Flow Label							
	Switch Access			Web GUI, Telnet, D-Link	Network Assistant Utility				
	sFlow			-	-				
	SNMP				2c / v3				
anagement	DHCP RMON	Client							
	TFTP Client								
	Syslog				/				
	Power Supply	Internal							
	Maximum Power	68.67 W	90.81 W	43.81 W	90.81 W	87.3W	85.7W		
hysical and nvironment	Consumption Power-Saving Technology				thernet				
ivitonment	Operating Temperature				o 50°C				
	Operating Humidity				Non-Condensing				
	Dimensions (W x D x H)			440 x 210) x 44 mm				
ladula:/	10 Gigabit SFP+ Transceivers		DEM-431XT, DEM-431XT-DD, DEM	1-432XT, DEM-432XT-DD, DEM-433	3XT, DEM-433XT-DD, DEM-434XT, I	DEM-436XT-BXU, DEM-436XT-BXD			
lodules/	SFP Transceivers	Iscelvers							
ransceivers									

D-Link Metro Ethernet Switches

D-Link's Metro Ethernet Switches are purpose-built for deployment in Metropolitan Area Networks and designed based on field proven experience learnt from multiple Ethernet deployments in Telecoms/Carriers. With support for a wide variety of technologies, which includes Ethernet OAM (Operations, Administration and Maintenance), Double VLAN (Q-in-Q), QoS and Triple-Play services demanded by Carrier Ethernet, they are optimized for Ethernetto-the-Home (ETTH) and Ethernet-to-the-Business (ETTB) services. They also come ready with Service Provider- friendly hardware, robust software and security features, which serve as an ideal access level switches in a Metropolitan network. D-Link Metro Ethernet Switches can be positioned as high-end residential switch or access layer switch in a Metro Ethernet. Targeted at IPTV applications, it provides complete multicast functions and reliable hardware design.

802.3ah OAM

The 802.3ah OAM, a data link layer protocol, provides network administrator the ability to monitor the health of the network and quickly determine the location of failing links or fault conditions on point-to-point and emulated point-to-point Ethernet links.

Multicast Capability

Ideal for the growing demands of IPTV usage, the D-Link Metro Ethernet Switches provides omprehensive multicast functions which enable various channel program designs for IPTV providers. This includes IGMP Snooping, Limited IP Multicast, ISM VLAN as well as MLD Snooping for an IPv6 environment.

Security

Through static MAC, network administrator can filter packets sent by non-registered devices. Port Security can limit the number of MAC addresses learnt per port and to prevent MAC address flooding attacks.

802.1x Authentication

The support of port-based and host-based 802.1x access control with local server or RADIUS server allows network administrator to put unauthorized users into Guest VLAN and restrict them with limited access rights.

Fully IPv6 Compatible

IPv6 Compatibility ensures continued reliable usage by Internet Service Providers (ISPs) when migrating to next-generation IP networks.

Easy Management

D-Link Metro Ethernet Switches feature a variety of management tools and supports several communication standards. Configuration can be done through Telnet, SNMP and HTTP. The Graphical User Interface (GUI) provides network administrator a straightforward and convenient way to manage their networks. The Link Layer Discovery Protocol (LLDP) allows the switch to advertise its identity and capabilities on the local network and to detect neighboring devices, so that the devices can provide topology information to management software applications.

Key Features

- ISM VLAN (Layer 2 Multicast)
- Guest VLAN
- IGMP Snooping
- MLD Snooping
- IGMP Authentication
- Access Control List (ACL)
- Port / Host-based 802.1xAccess
 Control
- RADIUS / Local Authentication Database
- D-Link SafeGuard Engine
- Port-based Q-in-Q
- VLAN Trunking
- Port Security
- SSH / SSL
- IP-MAC-Port Binding (IMPB)
- IEEE 802.3ah OAM
- Cable Diagnostics
- SNMP v1/v2c/v3
- RMON v1
- Link Layer Discovery Protocol (LLDP)
- DHCP Auto Configuration
- Neighbor Discovering
- Command Line Interface
- 6kV Surge Protection on all Ethernet
 Ports
- Dying Gasp

* Features supported are model dependent. Please refer to technical specification of each model.

Layer 2+ Gigabit Metro Ethernet Switches

DGS-1210/ME Series (B1)

The DGS-1210/ME Series Metro Ethernet Switches are a range of switches ideally suited for Metro Ethernet applications. They feature a variety of port configurations, including 10/100/1000BASE-T RJ-45 ports, 1G SFP slots and some models also support 10G SFP+ slots for increased network bandwidth. Surge protection, advanced Layer 2 functions, extensive suite of security and management tools make the DGS-1210/ME Series Metro Ethernet Switches ideal for Metro Ethernet applications. There are some models feature with Power over Ethernet (PoE), allowing compatible devices to be installed and powered in remote locations without immediate access to power outlets.



Series include the below models

DGS-1210-10/ME (B1)

- 10/100/1000BASE-T ports x 8
- SFP ports x 2

DGS-1210-10P/ME (B1)

- 10/100/1000BASE-T PoE ports x 8
- SFP ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 78 W PoE power budget

DGS-1210-12TS/ME(B1)

- 10/100/1000BASE-T ports x 2
- SFP ports x 10

DGS-1210-20/ME (B1)

- 10/100/1000BASE-T ports x 16
- SFP ports x 4

DGS-1210-28/ME (B2)

- 10/100/1000BASE-T ports x 24
- SFP ports x 4

DGS-1210-28P/ME (B2)

- 10/100/1000BASE-T PoE ports x 24
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget

DGS-1210-28MP/ME (B2)

- 10/100/1000BASE-T PoE ports x 24
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget

DGS-1210-52/ME (B2)

- 10/100/1000BASE-T ports x 48
- SFP ports x 4

DGS-1210-52P/ME (B2)

- 10/100/1000BASE-T PoE ports x 24
- 10/100/1000BASE-T ports x 24
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Port 1 8: Up to 30W
- Port 9 24: Up to 15.4W

- DGS-1210-52MP/ME(B2)
- 10/100/1000BASE-T PoE ports x 48
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget
- Port 1 8: Up to 30W
- Port 9 48: Up to 15.4W

DGS-1210-52MPP/ME(B1)

- 10/100/1000BASE-T PoE ports x 48
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support

Optional Accessories

DEM-CB100S DFM-CB300S DEM-CB700S

SE40-1120333-30

onal 10 Gbps SFP+ Direct Attach Cables (For DGS-1210-28X/28XS ME B1) 10 Gigabit SFP+ 1 m Direct Attach Cable 10 Gigabit SFP+ 3 m Direct Attach Cable 10 Gigabit SFP+7 m Direct Attach Cable

nal DC Prin er Supply (For Non-PoE Models) SE24-2120200-1C

Input voltage: 72 VDC to 36 VDC, Output voltage: 12V/2A (For DGS-1210-10/ME, 20/ME, 28/ME B1) Input voltage: 72 VDC to 36 VDC, Output voltage: 12V/3.33A (For DGS-1210-52/ME B1)

DPS-200A DPS-500A DPS-500DC DPS-CB150-2PS v.B1 SU54-21124-000S

Optional Redundant Power Supplies (For Non-PoE Models) 60 W Redundant Power Supply 140 W AC Redundant Power Supply 140 W DC Redundant Power Supply The RPS cable for DGS-1210/ME & DPS-200A/500A/500DC Optional 54W AC to DC Power Supply Unit (PSU) with external lead-acid battery

Key Series Features

- Port-based O-in-O
- VLAN Trunking
- IP-MAC-Port Binding (IMPB)
- Access Control List (ACL)
- IEEE 802.1X Access Control
- Guest VLAN
- Quality of Service (QoS)
- Port security
- ITU-T G.8032 ERPS sub-50ms protection & recovery
- D-Link Safeguard Engine
- Layer 2 Multicast
- 802.3ah Ethernet Link OAM
- Dying Gasp for guick troubleshooting during power failures or system shut down
- 6kV Surge Protection on all Gigabit Ethernet Ports
- Command Line Interface (CLI)
- RJ-45 Console Port

- 740 W PoE power budget



			A more same and 7 *	NON POE					
MODEL		DGS-1210-10/ME	DGS-1210-12TS/ME	DGS-1210-20/ME	DGS-1210-28/ME	DGS-1210-52/ME			
	Gigabit Ethernet	8	2	16	24	48			
nterfaces	SFP Slots	2	10	4	4	4			
	10 Gigabit SFP+ Slots								
	Switching Capacity	20 Gbps	24 Gbps	40 Gbps	56 Gbps	104 Gbps			
	Max Packet Forwarding Rate	14.88 Mpps	17.86 Mpps	29.8 Mpps	41.7 Mpps	77.4 Mpps			
eneral Features	Packet Buffer Memory		1.5 MB			3 MB			
	MAC Address Table			16,000					
	Flow Control		IEEE	802.3x Flow Control, HOL Blocking Preve	ntion				
	Jumbo Frame			9216 Bytes					
	Loop Protection			802.1D, 802.1w, 802.1S, ERPS					
ayer 2	802.3ad Link Aggregation			8 Groups, 8 Ports per Group					
eatures	Port Mirroring		One-to-One, Many-to-One, N	lirroring for Tx/Rx/Both, Flow-Based (AC	L) Mirroring for Ingress Traffic				
	Loopback Detection		•						
	Cable Diagnostics		•						
	ARP			256 Static ARP					
ayer 3 Features	IP Interfaces			4					
	Default Routing		•						
	Static Routing			Max 64 IPv4 Entries, Max 32 IPv6 Entrie					
	VLANs			4094 Static					
	GVRP			256 Dynamic					
internal I Abl	Protocol VLAN (802.1v)		•	Dart Paced					
'irtual LAN VLAN)	Double VLAN (Q-in-Q) MAC-Based VLAN			Port-Based					
VLAN)			•						
	ISM VLAN (Multicast VLAN) Private VLAN		•						
			•						
	VLAN Trunking		•	256					
ayer 2 Aulticasting	Groups			256	1/2				
luiticasting	Protocols	IGMP Snooping v1/v2/v3 awareness, MLD Snooping v1/v2 awareness							
	Standard			802.1p 8					
uality of	Number of Queues Mode			8 Strict / WRR					
Service (QoS)	CoS Handling	Curite	h Dart 200 1n Driarity Oyaya VI AN II		rate cal Tuna IDuć Traffic Class TCD/IIDI	Dort			
	Bandwidth Control), MAC Address, IP Address, DSCP, ToS, Pi					
	STP Security	POIL-Daseu (IIIgless/Egi	ess, min. granularity o4 kbps), riow-i	Based (Ingress, min. granularity 64 kbps BPDU Filtering, Root Restriction), Egress Queue Dahawidih Cohirol (hi	in. granularity 64 kbps)			
	Port Security			DPD0 Fillening, Root Restriction					
	DoS Attack Prevention		•						
	Storm Control		·	Broadcast / Multicast / Unicast					
ecurity	IP-MAC-Port Binding			Dioducast / Multicast / Officast					
ecurity	DHCP Server Screening		•						
	ARP Spoofing Prevention		•						
	Traffic Segmentation		·						
	D-Link SafeGuard Engine								
	802.1x Authentication			Port-Based, Host-Based					
	MAC-Based Access Control (MAC)			Host-Based					
uthentication,									
uthorisation and ccounting (AAA)	Network Access Protection (NAP)			802.1x NAP, DHCP NAP					
	Guest VLAN		•						
	Switch Access			RADIUS / TACACS+, 4-Level User Accoun	L				
ccess Control	Rules	(,	Port 802 In Priority VI AN ID MAC	256 Ingress Access Rules P Address Ether Type ToS ICMP IDv6 Tr	affic Class DSCP Protocol Turno TCD///IC	10 Port			
ists (ACL)	ACL Handling Time-Based ACL	SWILCH	ron, ouz. ip rhonty, vLAN ID, NAC, I	P Address, Ether Type, ToS, ICMP, IPv6 Tr	anic class, obcr, riototol type, ICP/UL	n rolt			
	Standard		•						
	PoE Ports								
ower over thernet									
arennet	PoE Power Budget Time-Based PoE								
	Switch Access			Web GUI, CLI, Telnet, Console					
	SWITCH ACCESS SNMP			v1 / v2c / v3					
	DHCP			Client, Relay					
	RMON			v1 / v2					
anagement	INNON			VI/VZ					
anagement	TFTP (lient		•						
lanagement	TFTP Client		•	ternal with RDS Ontion on Non Doc Man	alc				
lanagement	Syslog		Internal with RPS Option on Non-PoE Models						
lanagement	Syslog Power Supply	12 FO.W		12.071//					
lanagement	Syslog Power Supply Maximum Power Consumption	13.59 W	13.85 W	13.97 W	19.14 W	38.35 W			
	Syslog Power Supply Maximum Power Consumption Power-Saving Technology		13.85 W Green I	thernet, IEEE 802.3az Energy-Efficient E	thernet				
hysical and	Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures Power-Saving Technology	13.59 W 412,956 Hours	13.85 W			38.35 W 381,999 Hours			
'hysical and	Syslog Power Supply Maximum Power Consumption Power-Saving Technology		13.85 W Green I	thernet, IEEE 802.3az Energy-Efficient E	thernet				
Management Physical and Invironment	Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBF)		13.85 W Green I	thernet, IEEE 802.3az Energy-Efficient E 349,836 Hours	thernet				
hysical and	Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBF) Poperating Temperature		13.85 W Green I	thernet, IEEE 802.3az Energy-Efficient E 349,836 Hours -5°C to 50°C	thernet				
hysical and	Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBF) Poperating Temperature Operating Humidity Power-Saving Technology	412,956 Hours 280 x 126 x 44 mm	13.85 W Green I 405,083 Hours 280 x 180 x 44 mm	thernet, IEEE 802.3az Energy-Efficient E 349,836 Hours -5°C to 50°C 10% to 90% RH Non-Condensing	thernet 497,918 Hours 440 x140 x 44 mm	381,999 Hours 440 x 210 x 44 mm			

MODEL		DGS-1210-10P/ME	DGS-1210-28P/ME	DGS-1210-28MP/ME	DGS-1210-52P/ME	DGS-1210-52MP/ME	DGS-1210-52MPP/ME	
	Gigabit Ethernet	8 (PoE)	24 (PoE)	24 (PoE)	24 (PoE) + 24	48 (PoE)	48 (PoE)	
nterfaces	SFP Slots	2	4	4	4	4	4	
	10 Gigabit SFP+ Slots							
	Switching Capacity	20 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps	104 Gbps	
	Max Packet Forwarding Rate	14.88 Mpps	41.7 Mpps	41.7 Mpps	77.4Mpps	77.4 Mpps	77.4 Mpps	
	Packet Buffer Memory				5 MB			
General Features	MAC Address Table			16	5,000			
	Flow Control			IEEE 802.3x Flow Control	I, HOL Blocking Prevention			
	Jumbo Frame				6 Bytes			
	Loop Protection				w, 802.1S, ERPS			
	802.3ad Link Aggregation				Ports per Group			
ayer 2	Port Mirroring		One-to-One, Man	y-to-One, Mirroring for Tx/Rx/E		ring for Ingress Traffic		
eatures	Loopback Detection			,,		•		
	Cable Diagnostics							
	ARP			256 St	tatic ARP			
	IP Interfaces				4			
ayer 3 Features	Default Routing							
	Static Routing			Max 64 IPv4 Entries	s, Max 32 IPv6 Entries			
	VLANs				4 Static			
	GVRP				Dynamic			
	Protocol VLAN (802.1v)			2500		•		
irtual LAN	Double VLAN (Q-in-Q)			Dort	-Based	•		
Irtual LAN VLAN)	MAC-Based VLAN			POIL	Duscu			
	ISM VLAN (Multicast VLAN)					•		
						•		
	Private VLAN					•		
	VLAN Trunking			-		•		
ayer 2	Groups				256			
lulticasting	Protocols		IGM	P Snooping v1/ v2 / v3 awaren		areness		
	Standard	802.1p						
uality of	Number of Queues	8						
ervice (QoS)	Mode				t / WRR			
,	CoS Handling	Switch Port, 802.1p Priority Queue, VLAN ID, MAC Address, IP Address, DSCP, ToS, Protocol Type, IPv6 Traffic Class, TCP/UDP Port						
	Bandwidth Control	Port-Based (Ingres	ss/Egress, min. granularity 64 k	bps), Flow-Based (Ingress, min	i. granularity 64 kbps), Egress	Queue Bandwidth Control (min	. granularity 64 kbps)	
	STP Security			BPDU Filtering,	, Root Restriction			
	Port Security					•		
	DoS Attack Prevention					•		
	Storm Control			Broadcast / Mu	ulticast / Unicast			
ecurity	IP-MAC-Port Binding					•		
	DHCP Server Screening					•		
	ARP Spoofing Prevention							
	Traffic Segmentation					•		
	D-Link SafeGuard Engine					•		
	802.1x Authentication			Port-Based	d, Host-Based			
uthentication,	MAC-Based Access Control (MAC)			Host	-Based			
uthorisation and	Network Access Protection (NAP)			802.1x NA	P, DHCP NAP			
ccounting (AAA)	Guest VLAN							
	Switch Access			RADIUS / TACACS+	, 4-Level User Account			
	Rules				s Access Rules			
ccess Control	ACL Handling	ç	witch Port, 802 1n Priority, VI A	N ID, MAC, IP Address, Ether Ty		s. DSCP. Protocol Type TCP/UDP	Port	
ists (ACL)	Time-Based ACL			,, riddress, Erici tyj	, ,,,	•		
		802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	
	Standard	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	
Power over	PoE Ports	8	24	24	802.3af (PoE): 16	802.3af (PoE): 40	48	
thernet					802.3at (PoE+): 8	802.3at (PoE+): 8		
	PoE Power Budget	78 W	193 W	370 W	193 W	370 W	740 W	
	Time-Based PoE	•	·	•	•	•	•	
	Switch Access				, Telnet, Console			
	SNMP				v2c / v3			
anagement	DHCP				t, Relay			
	RMON			v1	/ v2			
	TFTP Client					•		
	Syslog					•		
	Power Supply			Internal with RPS Opt	tion on Non-PoE Models			
		101.7 W	251.5 W	445 W	273.2 W	479.5 W	957.9 W	
	Maximum Power Consumption				Green Eth	ernet, IEEE 802.3az Energy-Effi	cient Ethernet	
	Maximum Power Consumption Power-Saving Technology						265,457 Hours	
hysical and		310 336 Hours	331 600 Hours	267 060 Hours	/20 151 Hours			
	Power-Saving Technology	310,336 Hours	331,699 Hours	267,960 Hours	289,151 Hours	272,910 Hours	205,157 110015	
'hysical and nvironment	Power-Saving Technology Mean Time Between Failures	310,336 Hours	331,699 Hours	267,960 Hours	289,151 Hours	-5°C to 50°C	205,157 110015	
	Power-Saving Technology Mean Time Between Failures (MTBF)	310,336 Hours	331,699 Hours	267,960 Hours	289,151 Hours			
•	Power-Saving Technology Mean Time Between Failures (MTBF) Operating Temperature	310,336 Hours 280 x 180 x 44 mm	331,699 Hours 440 x 210 x 44 mm	267,960 Hours 440 x 250 x 44 mm	289, 15 T Hours 440 x 430 x 44 mm	-5°C to 50°C		
•	Power-Saving Technology Mean Time Between Failures (MTBF) Operating Temperature Operating Humidity	280 x 180 x 44 mm	440 x 210 x 44 mm		440 x 430 x 44 mm	-5°C to 50°C 10% to 90% RH Non-Condens 440 x 430 x 44 mm	ing 440 x 431 x 44 mm	

Advanced Layer 2+ Gigabit Smart Managed Swtches

DGS-1250 Series (with 10G Uplinks)

The D-Link DGS-1250 Series Smart Managed Switches are the latest generation of switches to provide increased Power over Ethernet (PoE) output, high port density, multiple management interfaces, and advanced Layer 2 features. With all of these features combined, the DGS-1250 Series provides a cost-efficient and flexible solution for expanding any business network.DGS-1250 Series includes a wide range of port and media types. All models in the DGS-1250 Series feature four 10G SFP+ ports, allowing you to choose the most suitable media type for your requirements. All DGS-1250 Series PoE switches include support for IEEE 802.3af/at and higher power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets. Furthermore, the DGS-1250-28XMP and DGS-1250-52XMP can supply PoE power up to 370W providing even more power for connected devices.



Surveillance Mode

The DGS-1250 Series supports Auto Voice VLAN and Surveillance Mode, which allows voice and video traffic to be automatically identified and handled differently than regular network traffic. Auto Voice VLAN detects Voice over IP (VoIP) traffic and automatically segments it from the rest of the network, adding a layer of isolation and allowing Quality of Service (QoS) to be applied. Surveillance Mode detects compatible ONVIF cameras and places them in a surveillance VLAN, allowing a single switch to be used for voice, video, and data, removing the need for dedicated hardware and reducing maintenance costs. Surveillance Mode also includes its own Web UI, making surveillance features easily accessible and simplifying management of your surveillance network.

Series include the below models

DGS-1250-28X

- 24 x 10/100/1000BASE-T 24 x 10/100/1000BASE-T PoE
- 4 x 10G SFP+ ports
- DGS-1250-28XMP

1000BASE-T copper

- 4 x 10G SFP+ ports • 802.3af (PoE) and
- 802.3at (PoE+)support

370 W PoE power budgets

Optional Accessories

DGS-712 DEM-302S-LX DEM-302S-BXD/BXU DEM-310GT DEM-311GT DFM-312GT2 DFM-314GT DEM-315GT DEM-330T/R DEM-331T/R DEM-210 DFM-211

1000BASE-LX, single-mode, 2 km Gigabit WDM transceiver, single-mode, 2 km 1000BASE-LX, single-mode, 10 km 1000BASE-SX, multi-mode, 550 m 1000BASE-SX, multi-mode, 2 km 1000BASE-LHX, single-mode, 50 km 100BASE-ZX, single-mode, 80 km Gigabit WDM transceiver, single-mode 10 km Gigabit WDM transceiver, single-mode 40 km 100BASE-FX, single-mode, 15 km 100BASE-FX multi-mode 2 km

DGS-1250-52X

• 48 x 10/100/1000BASE-T • 4 x 10G SFP+ ports

DGS-1250-52XMP

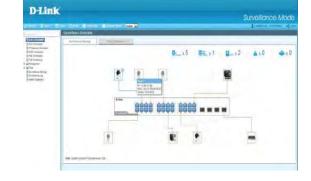
- 48 x 10/100/1000BASE-T PoE
- 4 x 10G SFP+ ports
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget

DFM-220T/R Fast Ethernet WDM transceiver, single-mode, 20 km DEM-410T 10GBASE-T SFP+ transceiver, 100 m DEM-431XT 10GBASE-SR SFP+ transceiver (without DDM), 33 m: OM1 MMF, 82 m: OM2 MMF, 300 m: OM3 MMF DEM-431XT-DD 10GBASE-SR SFP+ transceiver (with DDM), 33 m: OM1 MMF, 82 m: OM2 MMF, 300 m: OM3 MMF DEM-432XT 10GBASE-LR SFP+ transceiver (without DDM), 10 km DFM-432XT-DD 10GBASE-LR SFP+ transceiver (with DDM), 10 km DFM-433XT 10GBASE-ER SEP+ transceiver (without DDM) 40 km DEM-433XT-DD 10GBASE-ER SEP+ transceiver (with DDM), 40 km DEM-434XT 10GBASE-ZR SFP+ transceiver (without DDM), 80 km DEM-436XT-BXD 10GBASE-LR BiDi SFP+ transceiver (without DDM), wavelength Tx: 1330 nm, Rx: 1270 nm, 20 km DEM-436XT-BXU 10GBASE-LR BiDi SFP+ transceiver (without DDM), wavelength Tx: 1270 nm, Rx: 1330 nm, 20 km

Key Series Features

- Access Control Lists (ACLs)
- D-Link Safeguard Engine helps the CPU resist broadcast/multicast/ unicast flooding
- Port Security supports up to 64 MAC addresses per port
- ARP Spoofing Prevention
- IMPB Support
- D-Link Network Assistant (DNA) utility or multilingual Web UI
- Built-in SNMP MIB for remote NMS (D-View 7.0)
- Full command line support via console port1
- Static routing
- Surveillance Mode
- Auto Voice VLAN
- Dual software images
- Dual configuration files
- Link status detection
- Port and LED shut-off
- System hibernation
- Time-based PoE (PoE models only)

dlinkigreen



			NPOE		
MODEL		DGS-1250-28X	DGS-1250-52X	DGS-1250-28XMP	DGS-1250-52XMP
	1000Base-T Interface	24	48		
	1000Base-T Interface 1000Base-T PoE Interface	•	•	24	48
	1000Base-T PoE Interface			•	•
Interfaces	1000Base-T PoE Interface 10G SFP+ Interface	4	4	•	•
	10G SFP+ Interface	4	4	. 4	4
	10G SFP+ Interface				
	Auto MDI/MDIX	DI 45		DL 45	DI 45
	Console Port Switching Capacity	RJ-45 128Gbps	RJ-45 176Gbps	RJ-45 128Gbps	RJ-45 176Gbps
	Max. Packet Forwarding Rate	95.24Mpps	130.95Mpps	95.24Mpps	130.95Mpps
General Features	Store & Forwarding Forwading	16K	32К	16K	32K
	MAC Address Table Size Dual Images	IDK	526	. ION	52N
Power Over Ethernet	Standard			802.3a	
(PoE)	Maximum PoE Budget	V - (D1 1)	V - (D1 1)	370W	370W
	PD Alive 802.3x Flow Control	Yes (R1.1)	Yes (R1.1)	Yes (R1.1)	Yes (R1.1)
	Head-of-line (HOL) Blocking Prevention		-		
	802.1D Spanning Tree (STP) 802.1w Rapid Spanning Tree (RSTP)				
	802.1s Multiple Spanning Tree (MSTP)				
	Root Restriction				
	Root Guard 802.3ad Link Aggregation				
Layer 2 Features	Link Aggregation Group Per Device	8	8	8	8
	Max Port Per Link Aggregation Group	8	8	8	8
	Port Mirroring Jumbo Frame	12,000 Bytes	12,000 Bytes	12,000 Bytes	12,000 Bytes
	Loopback Detection (LBD)	12,000 Bytes	12,000 Bytes	12,000 Bytes	12,000 Bytes
	IGMP Snooping				
	Max IGMP Snooping Groups MLD Snooping	256	256	256	256
	MLD Snooping MLD Snooping Groups				
	IP Interface		•		
	Max Number of IP Interface ARP	4	4	4	4
Layer 3 Features	ARP IPv6 Neighbor Discovery (ND)				
	Default Route				
	Static Route				
	802.1Q VLAN VLAN Groups	4094	4094	4094	4094
	Port-based VLAN				
Virtual LAN (VLAN)	Voice VLAN		· · ·		
	Auto Surveillance VLAN Asymmetric VLAN				
	Class of Service (CoS)				
Quality of Service (QoS)	Strict Priority Queue (SPQ)		· · · ·		
	Weighted Round Robin (WRR) Port-based Bandwidth Control				
	MAC Access List				
	SSH SSL	Yes (only support TLS 1.0)	Yes (only support TLS 1.0)	Yes (only support TLS 1.0)	Yes (only support TLS 1.0)
	Port Security	res (only support res 1.0)	res (only support res 1.0)		les (only support res 1.0)
	Broadcast/Multicast/Unicast Storm Control				
	Traffic Segmentation				
	IP-MAC-Port Binding (IMPB)				
	IP Source Guard DHCP Snooping		· · ·		
	IPv6 Snooping				
	Dynamic ARP Inspection (DAI)				
	DHCPv6 Guard IPv6 Route Advertisement (RA) Guard				
Security	IPv6 ND Inspection				
	Duplicate Address Detection (DAD)				
	D-Link Safeguard Engine DHCP Server Screening				
	ARP Spoofing Prevention				
	BPDU Attack Protection				
	DoS Attack Prevention 802.1X				
	Port based 802.1X Authentication				
	Identity Driven 802.1X Policy Assignment				
	Guest VLAN				
	Authentication for Management Access				
	RADIUS				
	Simple Network Time Protocol (SNTP)	Ver (enh.	Vec (ept.	Van (anhuman 100 100 100	Vec (entre sector secto
	Web-based GUI Command Line Interface (CLI)	Yes (only support IE8, IE9, IE10) Yes (Limited CLI via telnet) R2 (Full CLI)	Yes (only support IE8, IE9, IE10) Yes (Limited CLI via telnet) R2 (Full CLI)	Yes (only support IE8, IE9, IE10) Yes (Limited CLI via telnet) R2 (Full CLI)	Yes (only support IE8, IE9, IE10) Yes (Limited CLI via telnet) R2 (Full CI
	Telnet Server	. co (cirrine o cer via terriet) nz (run cel)	(content of cervia terret) n2 (run cel)		res (cliniced cer via terriet) nz (r'ull Ci
	SNMP				
Management	TFTP Client				
Management					
Management	TFTP Client System Log RMON D-Link Discover Protocol (DDP)	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)
Management	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)
Management	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)	Yes (v0.27)
Management	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client	Yes (v0.27)	Yes (v0.27)		
Management	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard	Yes (v0.27) 30.6W(100V/60Hz), 29.6W(240V/50HZ)	Yes (v0.27) 51W(100V/60Hz), 51.2W(240V/50Hz) (Power	Yes (v0.27) PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF:	Yes (v0.27) PoE ON: 467.3W(100V/60Hz), 433.6W(240V/50Hz) PoE OFF:
	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant			PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 33.1W(240V/60Hz)	PoE ON: 467.3W(100V/60Hz), 443.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H
Management Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF- 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power mesurrement from AC side)	PoE ON: 467.3W(100V/60Hz), 443.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side
	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input	30.6W(100V/60Hz), 29.6W(240V/50HZ)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 33.1W(240V/60Hz)	PoE ON: 467.3W(100V/60Hz), 443.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H
	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE)	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side 27.8W(100V), 28.4W(240V)
	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Link Status	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side 27.8W(100V), 28.4W(240V)
	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE)	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50 (Power measurement from AC side 27.8W(100V), 28.4W(240V)
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Link Status Power Saving By Link Status Power Saving By Cable Length Power Saving By Det DShut-Off Power Saving By Port Shut-Off Power Saving By Port Shut-Off	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50 (Power measurement from AC side 27.8W(100V), 28.4W(240V)
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethermet (EEE) Power Saving By Link Status Power Saving By Link Status Power Saving By Length Power Saving By Port Shut-Off Power Saving By System Hibernation	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50 (Power measurement from AC side 27.8W(100V), 28.4W(240V)
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Link Status Power Saving By Link Status Power Saving By Cable Length Power Saving By Det DShut-Off Power Saving By Port Shut-Off Power Saving By Port Shut-Off	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V)	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V)	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5 W(100V), 19V(240V)	PoE ON: 467.3W(100V/60Hz), 43.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50 (Power measurement from AC side 27.8W(100V), 28.4W(240V)
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Cable Length Power Saving By Cable Length Power Saving By Spots Shut-Off Dimension Weight	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V) 100-240 VAC 440mm x 140 mm x 44mm 1.75KG	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V) 100-240 VAC 440mm x 210 mm x 44mm 3.01KG	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50H2) PoE OFF: 38.6W(100V/60H2), 39.1W(240V/60H2) (Power measurement from AC side) 18.5W(100V), 19W(240V) 100-240 VAC 100-240 VAC	PoE ON: 467.3W(100V/60Hz), 443.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side 27.8W(100V), 28.4W(240V) 100-240 VAC 440mm x 430 mm x 44mm 3.85KG
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Link Status Power Saving By Link Status Power Saving By Link Status Power Saving By Stable Length P	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V) 100-240 VAC 100-240 VAC 440mm x 140 mm x 44mm 1.75KG -5 - 50°C	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V), 23.5 W(240V) 100-240 VAC 100-240 VAC 440mm x 210 mm x 44mm 3.01KG -5 - 50°C	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Pover measurement from AC side) 18.5 W(100V), 19W(240V) 100-240 VAC 440mm x 250 mm x 44mm 3.46KG -5 - 50°C	PoE ON: 467.3W(100V/60Hz), 433.6W(240V/50Hz) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side 27.8W(100V), 28.4W(240V) 100-240 VAC 440mm x 430 mm x 44mm 3.85KG -5 - 50°C
Power Consumption	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Standby Power Consumption Power Saving By Leb Shut-Off Power Saving By Lab Shut-Off Power Saving By System Hibernation Time-based PoE Dimension Weight Operation Temperature Storage Temperature Storage Temperature	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V) 100-240 VAC 440mm x 140 mm x 44mm 1.75KG -5 - 50°C -20-7°C	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V). 23.5 W(240V) 100-240 VAC 440mm x 210 mm x 44mm 3.01KG -5 - 50°C -20-70°C	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Power measurement from AC side) 18.5W(100V), 19W(240V) 100-240 VAC 100-240 VAC 440mm x 250 mm x 44mm 3.46KG -5 - 50°C -20-70°C	PoE ON: 467.3W(100V/60H2), 443.6W(240V/50H2) 06 OFF: 56.4W(100V/60H2), 57.2W(240V/50H (Power measurement from AC side 27.8W(100V), 28.4W(240V) 100-240 VAC 440mm x 430 mm x 44mm 3.85KG -5 - 50°C -20-70°C
PowerConsumption PowerSaving	TFTP Client System Log RMON D-Link Discover Protocol (DDP) Dual Configurations DNS Client D-Link Network Assistant Smart Wizard Maximum Power Consumption Standby Power Consumption Standby Power Consumption Power Input Energy Efficiency Ethernet (EEE) Power Saving By Link Status Power Saving By Link Status Power Saving By Link Status Power Saving By Stable Length P	30.6W(100V/60Hz), 29.6W(240V/50HZ) (Power measurement from AC side) 8.7W(100V), 9.3W(240V) 100-240 VAC 100-240 VAC 440mm x 140 mm x 44mm 1.75KG -5 - 50°C	51W(100V/60Hz), 51.2W(240V/50Hz) (Power measurement from AC side) 23W(100V), 23.5 W(240V) 100-240 VAC 100-240 VAC 440mm x 210 mm x 44mm 3.01KG -5 - 50°C	PoE ON: 455.1W(100V/60Hz), 431.5W(240V/50Hz) PoE OFF: 38.6W(100V/60Hz), 39.1W(240V/60Hz) (Pover measurement from AC side) 18.5 W(100V), 19W(240V) 100-240 VAC 440mm x 250 mm x 44mm 3.46KG -5 - 50°C	PoE ON: 467.3W(100V/60Hz), 443.6W(240V/50H2) PoE OFF: 56.4W(100V/60Hz), 57.2W(240V/50H (Power measurement from AC side) 27.8W(100V), 28.4W(240V) 100-240 VAC 440mm x 430 mm x 44mm 3.85KG -5 - 50°C

Layer 2+ Gigabit Smart Managed Switches

DGS-1210 Series < nuclias

The DGS-1210 Layer 2+ Gigabit Smart Managed Switches are the latest generation to feature D-Link's Green 3.0 Technology and IEEE 802.3az Energy Efficient Ethernet standard, which offers a high level of energy saving and efficiency. By offering multiple management options, the Smart Managed Switches allow quick deployment, infrastructure expansion and seamless function upgrades, and with full support for IPv6 management and configurations, this latest range will ensure your network remains protected after from IPv4 to IPv6. Built for small- and medium-sized businesses, the DGS-1210 Series Layer 2+ Gigabit Smart Managed Switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.

Six switches in the DGS-1210 range offer power-budget PoE for businesses looking to power VoIP phones, wireless access points or network cameras. The various model design with different power budget allows plenty of flexibility in power allocation for a variety of powered devices but still offers affordable installation costs.

	D-Link				
	D-Link				
	D-Link				
3	D-Link	-	 		
link.					1
Link				-	
Link					
Link					
	HHH				

Series include the below models

DGS-1210-10 (F1)

- 10/100/1000BASE-T ports x 8
- SFP ports x 2

DGS-1210-10MP (F1)

- 10/100/1000BASE-T PoE ports x 8
- SFP ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 130 W PoE power budget

DGS-1210-10P (F1)

- 10/100/1000BASE-T PoE ports x 8
- SFP ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 65 W PoE power budget

DGS-1210-20 (F1)

- 10/100/1000BASE-T ports x 16
- 10/100/1000BASE-T/SFP Combo ports x 4

DGS-1210-26 (F2)

- 10/100/1000BASE-T ports x 24
- SFP ports x 2

DGS-1210-28 (F2)

- 10/100/1000BASE-T ports x 24
- 10/100/1000BASE-T/SFP Combo ports x 4

DGS-1210-28P (F2)

- 10/100/1000BASE-T PoE ports x 24
- 10/100/1000BASE-T/SFP Combo ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget

DGS-1210-28MP (F2)

- 10/100/1000BASE-T PoE ports x 24
 10/100/1000BASE-T/SFP Combo
- ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget

DGS-1210-52 (F2)

- 10/100/1000BASE-T ports x 48
- 10/100/1000BASE-T/SFP Combo ports x 4

DGS-1210-52MP (F2)

- 10/100/1000BASE-T PoE ports x 48
- 10/100/1000BASE-T/SFP Combo ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 370 W PoE power budget

DGS-1210-52MPP (E1)*

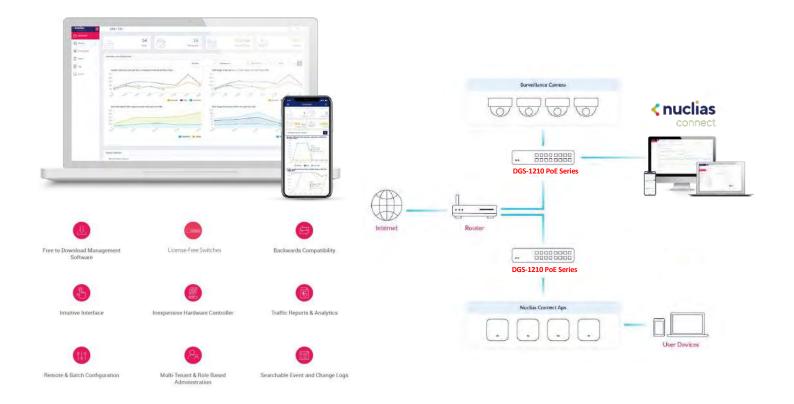
- 10/100/1000BASE-T PoE ports x 48
- SFP ports x 4
- 802.3af (PoE) and 802.3at (PoE+) support
- 740 W PoE power budget *Does not support Nuclias connect

Key Series Features

- Layer 3 Static Routing
- Internet Group Management Protocol (IGMP) snooping
- Loopback Detection (LBD)
- Cable diagnostics
- 802.1Q Virtual LAN (VLAN)
- Auto Surveillance VLAN (ASV)
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Port security
- Broadcast/multicast/unicast
 storm control
- D-Link Safeguard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)

Optional Accessories

Optional Manag	jement Software
DV-700	D-View 7 Network Management System
DV-800	D-View 8 Network Management System





		P		······································		
				NON POE		
MODEL		DGS-1210-10 (F1)	DGS-1210-20 (F1)	DGS-1210-26 (F2)	DGS-1210-28 (F2)	DGS-1210-52 (F2)
	Gigabit Ethernet	8	16	24	24	48
Interfaces	10/100/1000BASE-T/SFP Combo Slots		4		4	4
	SFP Slots	2		2		
	Switching Capacity	20 Gbps	40 Gbps	52 Gbps	56 Gbps	104 Gbps
	Max Packet Forwarding Rate	14.88 Mpps	29.8 Mpps	38.7 Mpps	41.7 Mpps	77.4 Mpps
General Features	Packet Buffer Memory	4.1 Mbits	4.1 Mbits	4.1 Mbits	4.1 Mbits	12 Mbits
	MAC Address Table					
	Flow Control Jumbo Frame					
	Loop Protection					
		8 Groups	8 Groups	4 Groups	8 Groups	4 Groups
Layer 2	802.3ad Link Aggregation	8 Ports per Group	8 Ports per Group	8 Ports per Group	8 Ports per Group	8 Ports per Group
Features	Port Mirroring					
	Loopback Detection					
	Cable Diagnostics					
	ARP	•	•	•	•	•
Layer 3 Features	IP Interfaces	4	4	4	4	4
	Default Routing	·	·	·	•	•
	Static Routing					Max 124 IPv
Virtual LAN	VLANs Auto Voice VLAN					
(VLAN)	Auto Surveillance VLAN					
	Groups					
Layer 2 Multicasting						
muticasting	Protocols					IGMP Snooping v1/ v2 / v2
	Standard					
	Number of Queues					
Quality of Service (QoS)	Mode					
Scific (Q05)	CoS Handling				802.1p Priority (Queue, MAC Address, Ether Type, IP Address
	Bandwidth Control					Port-Based (Ingress
	STP Security					
	Port Security					
	DoS Attack Prevention					
	Storm Control					
Security	IP-MAC-Port Binding					
	DHCP Server Screening					
	ARP Spoofing Prevention					
	Traffic Segmentation					
	Traffic Segmentation D-Link SafeGuard Engine					
Authentication,						
Authorisation and	D-Link SafeGuard Engine					
Authorisation and Accounting (AAA)	D-Link SafeGuard Engine 802.1x Authentication Switch Access					
Authorisation and Accounting (AAA) Access Control	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules					807 1n Priority VI AN IN
Authorisation and Accounting (AAA)	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL)	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard					802.1p Priority, VLAN ID,
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard POE Ports					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL)	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard POE Ports POE Power Budget					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard POE Ports POE Ports POE Power Budget Time-Based POE					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard POE Ports POE Power Budget Time-Based POE Switch Access SNMP					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access Switch Access SNMP DHCP					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFIP Client					802.1p Priority, VLAN ID
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFTP Client Syslog			Internal	Internal	
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFTP Client Syslog Power Supply	Internal 6.33W	Internal	Internal	Internal	Internal
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet	D-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption	Internal 6.33 W	Internal 13.02 W	Internal 15.11W	Internal 16.94 W	
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and	P-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Ports Switch Access Switch Access Switch Access SNMP DHCP RMON TFTP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology	6.33 W	13.02 W	15.11W	16.94W	Internal 34.2 W
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management	P-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFIP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBEF)					Internal
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and	P-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFIP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBF) Operating Temperature	6.33 W	13.02 W	15.11W	16.94W	Internal 34.2 W
Authorisation and Accounting (AAA) Access Control Lists (ACL) Power over Ethernet Management Physical and	P-Link SafeGuard Engine 802.1x Authentication Switch Access Rules ACL Handling Standard PoE Ports PoE Power Budget Time-Based PoE Switch Access SNMP DHCP RMON TFIP Client Syslog Power Supply Maximum Power Consumption Power-Saving Technology Mean Time Between Failures (MTBEF)	6.33 W	13.02 W	15.11W	16.94W	Internal 34.2 W

*Revision F2 comply with UL 62368 / EN 62368-1.

					511
	<u></u>				
		PO			
DGS-1210-10MP (F1)	DGS-1210-10P (F1)	DGS-1210-28P (F2)	DGS-1210-28MP (F2)	DGS-1210-52MP (F2)	DGS-1210-52MPP (E1)
8 (PoE)	8 (PoE)	24 (PoE)	24 (PoE)	48 (PoE)	48 (PoE)
2	2	4	4	4	4
		Ef Char	E6 Churc	104 Chec	
20 Gbps	20 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps
14.88 Mpps	14.88 Mpps	41.7 Mpps	41.7 Mpps	77.4 Mpps	77.4 Mpps
4.1 Mbits	4.1 Mbits	4.1 Mbits	4.1 Mbits	12 Mbits	3 MB
)00 EE 802.3x Flow Control, HOL Blocking Preventio	on				16,000
1,000 Bytes 12.1D, 802.1w, 802.1s					9216 Bytes 802.1D, 802.1w, 802.1s, ERPS
8 Groups	8 Groups	4 Groups	4 Groups	4 Groups	26 Groups
8 Ports per Group	8 Ports per Group	8 Ports per Group	8 Ports per Group	8 Ports per Group	8 Ports per Group
ne-to-One, Many-to-One, Mirroring for Tx/Rx/E	Both				
•					
•					
•	•	•	•	•	
4	4	4	4	4	1
•	•	•	•	•	
tries, Max 50 IPv6 Entries					Max 64 IPv4 Entries, Max 32 IPv6 Entrie
256 Static					
•					
•					
256					
areness, MLD Snooping v1 / v2 awareness					IGMP Snooping v1/ v2 / v3 awareness, M Snooping v1 / v2
802.1p, DSCP					Shooping V17 V2
8					
Strict / WRR					
otocol Type, DSCP, ToS, IP Preference, IPv6 Tra	offic Class TCD/UDD Dext				802.1p Priority Queue, DSCP, ToS, IPv6 Tra
nocol type, bscr, tos, ir rietetetice, irvo th	dille Class, TCP/ODP Poll				Class, TCP/UDP Port
ress, min. granularity 16 kbps)					Port-Based (Ingress/Egress, min. granular 64 kbps)
Root Restriction					
•					
•					
Broadcast / Multicast / Unicast					
Smart IP-MAC-Port Binding					
Port-Based					
DADUIC					
RADIUS					
Ingress ACL: 50 Profiles, 768 Rules					
AC, IP Address, Ether Type, IPv6 Traffic Class,					
802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)
8	8	24	24	48	48
130 W	65 W	193 W	370 W	370 W	740 W
•	•	•	•	•	•
Web GUI, Compact CLI, Telnet					
v1/v2c/v3					
Client					
v1					
Internal	External	Internal	Internal	Internal	Internal
148.7 W	80.6 W	247.4 W	424.8 W	454.1W	967.5 W
een Ethernet, IEEE 802.3az Energy-Efficient					
1,274,005 Hours	729,258 Hours	469,262 Hours	277,967 Hours	236,406 Hours	350,728 Hours
-5°C to 50°C	127,230 110015	109,202 1100(3		230,700 10015	550/120110015
-5 C to 50 C 0% to 95% RH Non-Condensing					
o to 55 to Rit Non-Condensing	280 x 180 x 44 mm	440 x 250 x 44 mm	440 x 250 x 44 mm	440 x 420 x 44	AA0 y A20 y A4
330 x 180 x 44 mm		44U X 75U X 44 MM	440 X 250 X 44 MM	440 x 430 x 44 mm	440 x 430 x 44 mm

DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712

Layer 2 Fast Ethernet Smart Managed Switches

DES-1210 Series

The DES-1210 Series provides 8, 24 or 48 Fast Ethernet ports, with optional Gigabit and combo Gigabit/SFP ports, so has all the features needed in a small- or medium-sized business, without the complexity or cost. The built-in web interface and PC-based SmartConsole Utility make these switches easy to deploy, configure and troubleshoot and the complete set of features allows for seamless integration in any business environment. The PoE option is available on the 8- and 24-port members of the family and includes power-saving technologies such as time-based PoE, which allows the power to be shut off at a predetermined time, saving power on VoIP phones, wireless access points or any other PoE equipment. Furthermore, the DES-1210-28P incorporates a Smart Fan feature, automatically turning on the system fans only when necessary. This not only saves energy and cost but also extends the lifespan of the switch. The DES-1210-28P is also compliant with the PoE+ standard, enabling it to feed up to 30 Watts to connected PoE devices.



Series include the below models

DES-1210-08P

- 10/100BASE-TX PoE ports x 8
- 802.3af PoE support
- 72 W PoE power budget
- Fanless

DES-1210-28

- 10/100BASE-TX ports x 24
- 10/100/1000BASE-T ports x 2
- Combo 1000BASE-T/SFP ports x 2
- Fanless
- 19in, 1U rack-mountable

DES-1210-28P

- 10/100BASE-TX PoE ports x 24
- 10/100/1000BASE-T ports x 2
- Combo 1000BASE-T/SFP ports x 2
- 802.3af (PoE) and 802.3at (PoE+) support
- 193 W PoE power budget
- Smart fans x 3
- 19in, 1U rack-mountable

Key Series Features

- Internet Group Management Protocol (IGMP) snooping
- Multicast filtering
- 802.1Q tagged Virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Broadcast/multicast/unicast
 storm control
- D-Link SafeGuard Engine
- DHCP server screening
- ARP spoofing prevention
- Web-based GUI
- Simple Network Management Protocol (SNMP)

What speed does Ethernet run at ?

Ethernet interfaces are referred to as 10BASE-T (Ethernet), 100BASE-TX (Fast Ethernet), 1000BASE-T (Gigabit Ethernet) and 10GBASE-T (10 Gigabit Ethernet.) Each standard represents a 10-fold increase in data transfer speed, from 10BASE-T (10 million bits per second) up to 10GBASE-T (10 thousand million bits per second). Don't forget that eight bits equals one byte...

Optional Accessories

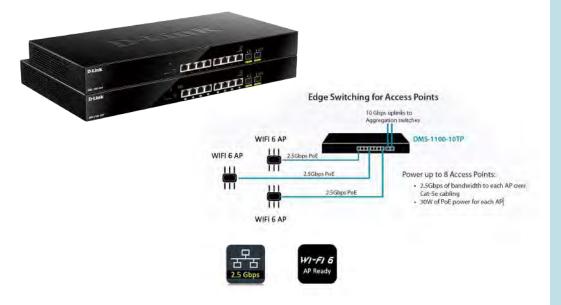
Optional Ma	nagement Software
DV-700	D-View 7 Network Management System
DV-800	D-View 8 Network Management System

		NON POE	POE				
MODEL		DES-1210-28	DES-1210-08P	DES-1210-28P			
	Fast Ethernet	24	8 (PoE)	24 (PoE)			
Interfaces	Gigabit Ethernet	2	—	2			
	Combo Gigabit/SFP Slots	2	_	2			
	Stackability	—	—	—			
	Stacking Speed (per Port)	12.8 Gbps	 1.6 Gbps	12.8 Gbps			
	Switching Capacity Forwarding Mode	12.8 dups	Store-and-Forward	12.8 GDps			
General Features	Packet Buffer Memory	512 KB	384 KB	512 KB			
	MAC Address Table	8K Entries	8K Entries	8K Entries			
	Flow Control	or Littles	802.3x, HOL Blocking Prevention	ok Liitiles			
	MDI/MDIX		Configurable				
	Loop Protection		802.1Q, 802.1w				
		14 Groups	4 Groups	14 Groups			
	803.2ad Link Aggregation	8 Ports per Group	8 Ports per Group	8 Ports per Group			
.2 Features	Port Mirroring		One-to-One, Many-to-One, RX/TX/Both	, · · · · · ·			
	Loopback Detection		1				
	Cable Diagnostics		_				
	VLANs		256 Static				
	GVRP		—				
Contract I ANI (ALI ANI)	Protocol VLAN (802.1v)						
/irtual LAN (VLAN)	Double VLAN (Q-in-Q)	_					
	Auto Voice VLAN	✓					
	Auto Surveillance VLAN		1				
	Groups		256				
Aulticasting	Protocols		IGMP v1, v2				
	Standard	802.1p, DSCP					
	Number of Queues	4					
Quality of Service (QoS)	Mode		Strict / WRR				
	CoS Handling		802.1p, DSCP				
	Bandwidth Control	\checkmark					
	STP Security		—				
	Per-Port MAC Limitation		1				
	Static MAC		64				
	Storm Control		Broadcast / Multicast / Unicast				
Security	IP-MAC-Port Binding		—				
	DHCP Server Prevention	\checkmark					
	ARP Spoofing Prevention	\checkmark					
	Traffic Segmentation		✓				
	D-Link SafeGuard Engine		✓				
	802.1x Authentication	Port-Based					
	Web-based Access Contol (WAC)		—				
uthentication, Authorisation and	MAC-based Access Contol (MAC)		—				
accounting (AAA)	Network Access Protection (NAP)		—				
	Guest VLAN		—				
	Switch Access		—				
	Rules		240				
ccess Control Lists (ACL)	Mac-Based ACL		VLAN ID, 802.1p, MAC, IP, DSCP, Port				
	Time-Based ACL		—				
	Standard		802.3af (PoE)	802.3af (PoE), 802.3at (PoE+)			
ower over Ethernet	PoE Ports	_	8	802.3af (PoE): 24			
			72 W	802.3at (PoE+): 4 193 W			
	PoE Power Budget		72 W Web GUI, Telnet	195 W			
	Switch Access		web doi, ieiliet				
	sFlow SNMP		 v1 / v2c / v3				
lanagement	DHCP		VI / V2C / V3 Client				
lanagement	RMON						
	TFTP Client		✓ ✓				
	Syslog		✓ ✓				
	Power Supply	Internal	✓ External	Internal			
			external 84.9 W (PoE on)	254 W (PoE on)			
	Maximum Power Consumption	9.46 W	3.5 W (PoE off)	26.4 W (PoE off)			
	Power Saving Technology	_		Smart Fans			
hysical and Environment	Number of Fans	0	0	3			
ingeneration and Environment	Operating Temperature		0°C to 40°C				
	Operating Humidity		5% to 95% RH Non-Condensing				
	Dimensions (W x D x H)	330 x 180 x 44 mm	190 x 120 x 38 mm	440 x 210 x 44 mm			
	Mean Time Between Failures (MTBF)	330,182 Hours	656,745 Hours	244,140 Hours			

Layer 2 2.5 Gigabit Smart Managed Switches

DMS-1100 Series

The DMS-1100 Series is the latest in D-Link Layer 2 Smart Managed Switches Family. Thi series supports 2.5 Gigabit Ethernet and 10G SFP+ Slots for uplink. It blends plug-andplay simplicity with exceptional value and reliability for small and medium-sized business (SMB) networking. The whole series are housed in a new style rack-mount metal case with easy-to-view front panel diagnostic LEDs, and provide advanced features including network security, traffic segmentation, QoS and versatile management.



Series include the below models

DMS-1100-10TS

- 2.5GBASE-T ports x 8
- 10 Gigabit SFP+ ports x 2

Optional Accessories

nal 10 Gbps SFP+ Direct Attach Cables Onti DEM-CB100S 10 Gigabit SFP+ 1 m Direct Attach Cable 10 Gigabit SFP+ 3 m Direct Attach Cable DEM-CB300S DEM-CB700S 10 Gigabit SFP+ 7 m Direct Attach Cable

- 2.5GBASE-T PoE ports x 8
- 10 Gigabit SFP+ ports x 2



Key Series Features

- Port Security
- 2.5G Base-T PoE*
- D-Link Safeguard Engine
- Auto Surveillance VLAN
- Voice VI AN
- Port Mirroring
- Bandwidth Control
- Traffic Segmentation
- 802.1p Priority Queue Mapping
- Web-based GUI or D-Link Network Assistant utility



What does 1U Rack- Mountable mean?

Many D-Link switches and other supporting hardware such as RPSs (Redundant Power Supplies) are designed to fit in standard 19in-wide communications enclosure frames. 1U Rack-Mountable means this device is one standard unit high (44mm) and that it can be mounted into a standard comms rack. Some D-Link switches that are narrower than 19in are supplied with brackets so they can still be rack-mounted if desired.

			- amandes			
		NON POE	POE			
MODEL		DMS-1100-10TS	DMS-1100-10TP			
Interfaces	2.5GBASE-T	8	8 (PoE)			
	10 Gigabit SFP+ Slots	2	2			
	Stackability Stacking Speed					
	Switching Capacity	80 Gbps	80 Gbps			
	Max Packet Forwarding Rate	59.52 Mpps	59.52 Mpps			
General Features	Packet Buffer Memory	12 Mbits				
	MAC Address Table	16	000			
	Flow Control	IEEE 802.3x Flow Control	, HOL Blocking Prevention			
	Jumbo Frame	9216	Bytes			
	Loop Protection	802.1D, 80	02.1w, ERPS			
	802.3ad Link Aggregation		•			
L2 Features	Port Mirroring	One-to-One, Many-to-On	e, Mirroring for Tx/Rx/Both			
	Loopback Detection		•			
	Cable Diagnostics		•			
	VLANs	128	Static			
	GVRP					
Virtual LAN (VLAN)	Protocol VLAN (802.1v)					
	Double VLAN (Q-in-Q)					
	Auto Voice VLAN		•			
	Auto Surveillance VLAN	T	• BA			
Layer 2 Multicasting	Groups Protocols		v3, MLD Snooping v1 / v2			
	Standard		2.1p			
	Number of Queues		8			
Quality of Service (QoS)	Mode		VRR / DRR			
(uuii) () ((()))	CoS Handling	Switch Port				
	Bandwidth Control	Port-Based (Ingress/Egress)				
	STP Security					
	Port Security					
	DoS Attack Prevention		•			
Security	Storm Control	Broadcast / Multicast / Unicast				
Security	IP-MAC-Port Binding					
	DHCP Server Screening					
	ARP Spoofing Prevention					
Authentication, Authorisation and	D-Link SafeGuard Engine		•			
Authentication, Authorisation and Accounting (AAA)	802.1x Authentication					
	Standard		802.3af (PoE)			
			802.3at (PoE+)			
Power Over Ethernet	PoE Ports		8			
	PoE Power Budget		240 W			
Accors Control Lists (ACL)	Time-based PoE		•			
Access Control Lists (ACL)	ACL Handling Switch Access	Wa	o GUI			
	sFlow	We				
	SNMP	v1	/ v2c			
Management	DHCP		ent			
	RMON					
	TFTP Client		•			
	Syslog		•			
	Power Supply	Inte	ernal			
	Power-Saving Technology		az Energy-Efficient Ethernet			
	Operating Temperature		to 50°C			
	Operating Humidity		Non-Condensing			
	Dimensions (W x D x H)	440 x 209 x 44 mm	440 x 250 x 44 mm			
Modules / Transceivers	10 Gigabit SFP+ Transceivers		3XT, DEM-433XT-DD, DEM-434XT, DEM-436XT-BXD, DEM-436XT-BXU			
	SFP Transceivers	VEM-310G1, DEM-311G1, DEM-312GT2, DEM-314GT, DEM-3	15GT, DEM-330T, DEM-330R, DEM-331T, DEM-331R, DGS-712			

Layer 2 Gigabit Metro Ethernet Switches

DGS-1100/ME Series

The DGS-1100/ME Gigabit Metro Ethernet Switches are ideal solution for Metro Ethernet applications which require upgrade from Fast Ethernet to Gigabit entry level switches. This series also offer resilience against electrical spikes with in-built surge protection, giving customer a reliable solution that they can count on.

Compliant with IEEE802.3az Energy Efficient Ethernet, the DGS-1100/ME switches consume less energy by cutting down on power consumption when port utilization is low. By deploying EEE devices, users can cut operating costs and even cut down on necessary cooling equipment, helping small and medium-sized businesses stay within their budgets. The DGS-1100/ME Series also features D-Link Green Technology that helps automatically save energy. The switches monitor the link status of every port and will drastically reduce power consumption when a port link is down.

The DGS-1100/ME Series also feature Loopback Detection and Cable Diagnostics to help network administrators find and solve network problems quickly and easily. Loopback Detection is used to detect loops created by a specific port and automatically shut down the affected port. The Cable Diagnostics feature is designed for network administrators to quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.





Series include the below models

DGS-1100-06/ME

- 10/100/1000BASE-T ports x 5
- SFP port x 1

DGS-1100-10/ME

- 10/100/1000BASE-T ports x 8
- 10/100/1000BASE-T/SFP Combo ports x 2

• 10/100/1000BASE-T ports x 16

DGS-1100-24/ME

DGS-1100-16/ME

• 10/100/1000BASE-T ports x 24

DGS-1100-24P/ME

- 10/100/1000BASE-T PoE ports x 12
- 10/100/1000BASE-T ports x 12
- 802.3af (PoE) and 802.3at (PoE+) support
- 100 W PoE power budget

Key Series Features

- Various selection of port counts, with or without PoE and fiber support
- Port-based Q-in-Q*
- Silent, fanless design (Non-PoE models)
- IGMP Snooping
- IEEE 802.1X Access Control*
- Guest VLAN*
- Quality of Service (QoS)
- Port security*
- D-Link Safeguard Engine
- Layer 2 Multicast
- 802.3ah Ethernet Link OAM*
- 6kV Surge Protection on all Gigabit Ethernet Ports
- Command Line Interface (CLI)
- * Supported on DGS-1100-06/10ME

			NON	POE		POE	
MODEL		DGS-1100-06/ME	DGS-1100-10/ME	DGS-1100-16/ME	DGS-1100-24/ME	DGS-1100-24P/ME	
	Gigabit Ethernet	5	8	16	24	12 (PoE) + 12	
nterfaces	10/100/1000BASE-T/SFP Combo Slots SFP Slots	1	2				
	Switching Capacity	12 Gbps	20 Gbps	32 Gbps	48 Gbps	48 Gbps	
General Features	Max Packet Forwarding Rate	8.9 Mpps	14.88 Mpps	23.81 Mpps	35.71 Mpps	35.71 Mpps	
	Packet Buffer Memory	128KB	4.1 Mbits	512 KB	512 KB	512 KB	
	MAC Address Table	4,000	8,000	8,000	8,000	8,000	
	Flow Control		IEEE 8	02.3x Flow Control, HOL Blocking Pre	vention		
	Jumbo Frame	9216 Bytes	10 Kbytes	9216 Bytes	9216 Bytes	9216 Bytes	
	Loop Protection	802.1D, 802.1w		802.1D, 802.1w	802.1D, 802.1w	802.1D, 802.1w	
Layer 2 Features	802.3ad Link Aggregation	8 Groups, 8 Ports per Group		8 Groups, 8 Ports per Group	12 Groups, 8 Ports per Group	12 Groups, 8 Ports per Grou	
	Port Mirroring		One-to	-One, Many-to-One, Mirroring for Tx/	Rx/Both		
	Loopback Detection			•			
	Cable Diagnostics			•			
	ARP		128 Static ARP				
ayer 3 Features	IP Interfaces		1				
	Default Routing		•				
	Static Routing	32	22	120	128	120	
	VLANs GVRP	32	32	128	128	128	
Virtual LAN (VLAN)	Auto Surveillance VLAN			•			
	Double VLAN (Q-in-Q)	Port-Based	Port-Based	•	•	•	
	Voice VLAN	i oi (-Daseu	i oi t-baseu				
	ISM VLAN (Multicast VLAN)				-	-	
ayer 2	Groups	32	256	64	64	64	
Multicasting	Protocols		areness, MLD Snooping v1 / v2		/1/ v2 / v3 awareness, MLD Snooping v		
	Standard	802.1p, DSCP	802.1p, DSCP	802.1p	802.1p	802.1p	
	Number of Queues	4	8	4	4	4	
uality of	Mode			Strict / WRR			
ervice (QoS)	CoS Handling	802.1p, DSCP, IPv6 Traffic Class	802.1p, DSCP	Switch Port	Switch Port	Switch Port	
	Bandwidth Control	Port-Based (Ingress/Egree, min. granularity 64 kbps)	PORT-BASED UNDERSTING ARDING TO A PORT-BASED UNDERSTITY & KDDS, EDITED AND A PORT-BASED UNDERSTITY & KDDS, EDITED AND A PORT-BASED UNDERSTITY A KDDS, EDITED AND A PORT-BASED AND A PORT-BASE				
	STP Security						
	Port Security	•	•				
	DoS Attack Prevention	•		•	•	•	
	Storm Control			Broadcast / Multicast / Unicast			
ecurity	IP-MAC-Port Binding						
	DHCP Server Screening						
	ARP Spoofing Prevention Traffic Segmentation						
	D-Link SafeGuard Engine						
uthentication, uthorisation and	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN/QoS Assignment	Port-Based, Host-Based, Dynamic VLAN/QoS Assignment				
ccounting (AAA)	Guest VLAN	•	•				
	Standard					802.3af (PoE) 802.3at (PoE+)	
ower over thernet	PoE Ports					12	
anemet	PoE Power Budget					100 W	
	Time-Based PoE					•	
	Switch Access			Web GUI, CLI, Telnet			
	SNMP	v1/v2c/v3	v1/v2c/v3	v1/v2c	v1/v2c	v1/v2c	
anagement	DHCP	Client, Relay	Client, Relay	Client	Client	Client	
	RMON TETP (light	v1	v1				
	TFTP Client			•			
	Syslog Power Supply	External	External	• Internal	Internal	Internal	
	Power Supply Maximum Power Consumption	7.08W	7.9 W	9.31 W	13.94 W	128.32 W	
	Power-Saving Technology	7.00W		Energy-Efficient Ethernet (All suppor		120.32 W	
hysical and	Mean Time Between Failures	459,420 Hours	706,061 Hours	2,827,541 Hours	2,406,109 Hours	563,292 Hours	
nvironment	(MTBF)						
	Operating Temperature	0°C to 40°C	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C	-5°C to 50°C	
	Operating Humidity		Non-Condensing	200 x 100 44	0% to 95% RH Non-Condensing	200 x 220 44	
lodules /	Dimensions (W x D x H)	280 x 126 x 44 mm	190 x 120 x 38 mm DEM_210_DEM_211	280 x 180 x 44 mm DEM-220T, DEM-220R (Supported by	280 x 180 x 44 mm	280 x 230 x 44 mm	
ansceivers	SFP Transceivers	DEM-310GT, DEM-311GT			, DEM-331R, DGS-712 (Supported by D	GS-1100-06, 10, 18/ME)	

Layer 2 Gigabit Smart Managed Switches

DGS-1100 V2 Series < nuclias

The DGS-1100 Series is a range of switches designed to meet the requirements of small, medium, and enterprise businesses. Support for multiple PoE standards (802.3af/at/bt) make the DGS-1100 Series ideal for IP surveillance deployments. Advanced management features, a range of diagnostic and troubleshooting tools, and energy efficient technologies provide a flexible solution to meet your networking requirements.



*Model dependent

Green Features That Help the Environment and Your Budget

D-Link Green technology enables the DGS-1100 Smart Managed Switches to save power without sacrificing performance. Most of the models in the series utilize a fanless design, ensuring a longer product life, as well offering silent and energy-efficient operation. All are IEEE 802.3az-compliant and feature Link Status detection and Time-Based PoE



Types of Power-over-Ethernet Standards

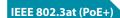
IEEE 802.3af (PoE)

Power Sourced 15.4W Power Requested 13W



IP Camera





IEEE 802.3bt (PoE++)

Power Sourced 30W Power Requested 25.5W





Power Sourced 90W Power Requested 71.3W



PTZ Camera











Digital Signage

POS System

Key Series Features

- Available in multiple configurations, with or without PoE and fiber support
- Fanless design for silent operation1
- Link status detection
- IEEE 802.3az Energy-Efficient Ethernet compliant
- Time-based PoE*
- PoE++ 802.3bt (Up to 90W)*
- IGMP Snooping
- Bandwidth Control
- IEEE 802.10 VLAN traffic segregation
- Port-based VLAN
- IEEE 802.1p Quality of Service
- Surveillance VLAN*
- Voice VLAN

Management Features

- Client-based utility or web-based GUI
- Built-in SNMP MIB2
- D-Link Network Assist







Series include the below models

DGS-1100-05V2

• 5x 10/100/1000BASE-T Port

DGS-1100-05PDV2

- 5x 10/100/1000BASE-T
- Port 1 & 2 PoE passthrough

DGS-1100-08V2

• 8x 10/100/1000BASE-T Port

DGS-1100-16V2

• 16x 10/100/1000BASE-T Port

DGS-1100-24V2

• 24x 10/100/1000BASE-T Port

DGS-1100-10MPV2

- 8x 10/100/1000BASE-T PoE 8x 10/1
 - 2x SFP Ports

• 130 W PoE power budget

• 2x GE/SFP Combo Ports

• 370W PoE power bud

- 64 W PoE power budget
 DGS-1100-08PLV2
- 4x 10/100/1000BASE-T PoE + 4x DGS-1100-26MPV2 10/100/1000BASE-T Port • 24x 10/100/1000BASE-T PoE
- 80 W PoE power budget

DGS-1100-18PV2

DGS-1100-08PV2

- 16x 10/100/1000BASE-T PoE
 2x 100/1000 GE/SFP Combo
- Ports

 130 W PoE power budget
- DGS-1100-24PV2

• 12x 10/100/1000BASE-T PoE

- 12x 10/100/1000BASE-T Port
 12x 10/100/1000BASE-T Port
 - 12X 10/ 100/ 1000DASE-1 P0

100 W PoE power budget

MPV2

- 8x 10/100/1000BASE-T PoE 8x 10/100/1000BASE-T PoE
 - 2x SFP Ports
 - 802.3bt (PoE++) support (up to 90W)

DGS-1100-10MPPV2

242 W PoE power budget

DGS-1100-26MPPV2

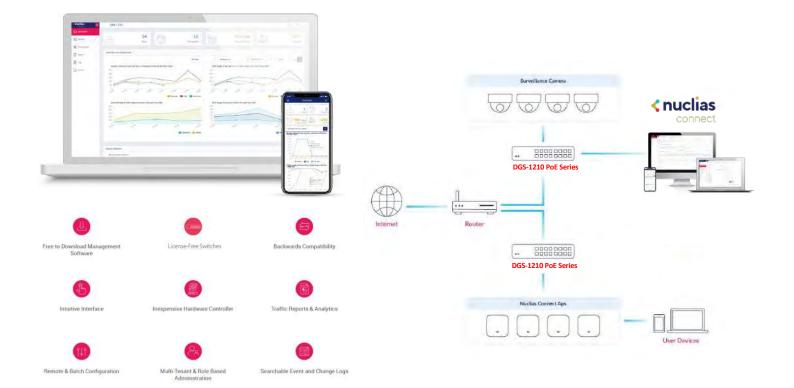
- 24x 10/100/1000BASE-T PoE
- 2x GE/SFP Combo Ports
- 802.3bt (PoE++) support (up to 90W)
- 525 W PoE power budget

Optional Accessories

Optional SFP Transceivers

DEM-210 100BASE-FX, single-mode, 15 km DEM-211 100BASE-FX, multi-mode, 2 km DEM-220T 100BASE-BX-D , single-mode, 20 km DEM-220R 100BASE-BX-U , single-mode, 20 km DGS-712 1000BASE-T copper, 100 m DEM-310GT 1000BASE-LX, single-mode, 10 km DEM-311GT 1000BASE-SX, multi-mode, 550 m

DEM-312GT2 1000BASE-SX, multi-mode, 2 km DEM-314GT 1000BASE-LHX, single-mode, 50 km DEM-315GT 1000BASE-ZX, single-mode, 80 km DEM-330T 1000BASE-BX-D, single-mode, 10 km DEM-330R 1000BASE-BX-U, single-mode, 40 km DEM-331T 1000BASE-BX-U, single-mode, 40 km





			NON	POE	
MODEL		DGS-1100-05V2	DGS-1100-08V2	DGS-1100-16V2	DGS-1100-24V2
	Gigabit Ethernet	5	8	16	24
nterfaces	Auto MDI/MDIX	Yes			
	Switching Capacity	10 Gbps	16 Gbps	32Gbps	48Gbps
	Max. Packet Forwarding Rate	7.4Mpps	11.9Mpps	23.81Mpps	35.71Mpps
	Store & Forwarding Forwading			/	
eneral Features	MAC Address Table Size	2K	4K	8K	8K
	802.3x Flow Control		1	1	
	Head-of-line (HOL) Blocking Prevention		1	/	
	802.1D Spanning Tree (STP)		1	/	
	802.1w Rapid Spanning Tree (RSTP)		1	/	
	802.1AX Link Aggregation			1	1
	Port Mirroring				
2 Features	Jumbo Frame	9K bytes	9K bytes	10K bytes	10K bytes
	Loopback Detection (LBD)		J. (2) (C)		· · · ·
	Cable Diagnostics		·		
	IGMP Snooping				
	802.1Q VLAN		1~4		
	VLAN Groups	32	32	128	128
	Port-based VLAN	52	52 V		120
Virtual LAN (VLAN)	Voice VLAN	Static Voice VLAN only	Static Voice VLAN only	1	1
	Auto Surveillance VLAN	Static voice versi only	Static voice v LAN only	J	J
	Asymmetric VLAN	1		v	v
	Number of Queue	4	4	8	8
	Class of Service (CoS)	7			0
	Rate Limiting		↓ ↓		
	Strict Priority Queue (SPQ)		v		
	Weighted Round Robin (WRR)		V		
	Port-based Bandwidth Control		· · · · · · · · · · · · · · · · · · ·		
ecurity	SSL		v	1	1
county	Broadcast/Multicast/Unicast Storm			v	v
	Control		~	/	
	Traffic Segmentation		1	/	
	D-Link Safeguard Engine			✓	1
	DoS Attack Prevention			1	1
	Web-based GUI		1	1	
	SNMP		1	1	
	TFTP Client			1	1
	System Log			✓	1
lanagement	LLDP			1	1
	D-Link Discover Protocol (DDP)		1	1	
	DHCP/BootP Client		1	/	
	D-Link Network Assistant		1	/	
	Smart Wizard			1	1
	Dimension	$100.5 \times 82 \times 28 \text{ mm}$	$145 \times 82 \times 28 \text{ mm}$	280 x 180 x 44mm	280 x 180 x 44mm
	Weight	0.23 kg	0.34 kg	1.21 Kg	1.32 Kg
	Operation Temperature	0 ~ 40 °C	0 ~ 40 °C	-5-50°C	-5-50°C
	Storage Temperature	- 40 ~ 70 °C	- 40 ~ 70 °C	-40-70°C	-40-70°C
	Operation Humidity	0% ~ 90% RH	0% ~ 90% RH	0%-95% RH	0%-95% RH
hysical and	Storage Humidity	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH
nvironment	Maximum Power Consumption	3.42 W	4.94 W	10.1Watts	15.9Watts
	Standby Power Consumption	1.39 W	1.93 W	3.4Watts	4.5Watts
	FAN	Fanless	Fanless	Fanless	Fanless
	Power Input	AC: 100 ~ 240 V (5V/1A power adapter)	AC: 100 ~ 240 V (5V/1A power adapter)	AC: 100-240V	AC: 100-240V
	Energy Efficiency Ethernet (EEE)	1			
	Comply with RoHS 6	1			

			nu (1111)(1111)				-
			P	DE		PoE++ (802.3bt)
MODEL		DGS-1100-08PV2	DGS-1100-10MPV2	DGS-1100-18PV2	DGS-1100-24PV2	DGS-1100-10MPPV2	DGS-1100-26MPPV2
Interfaces	Gigabit Ethernet Gigabit PoE++ Ethernet Port No. SFP Slot	8 (PoE)	8 (PoE) 2	16 (PoE)	12 (PoE) + 12	8 (PoE) PoE++ (Port 7 ~ 8) 2	24 (PoE) PoE++(Port 20 ~ 24)
	Combo 1000Base-T/SFP			2			2
	Auto MDI/MDIX	1	1	✓	\checkmark	1	<i>s</i>
	Switching Capacity	16 Gbps	20Gbps	36Gbps	48Gbps	20Gbps	52Gbps
	Max. Packet Forwarding Rate	11.9Mpps	14.88Mpps	26.78Mpps	35.71Mpps	14.88Mpps	38.69Mpps
General Features	Store & Forwarding Forwading Jumbo Frame	✓ 9K bytes	✓ 10K bytes	✓ 10K bytes	✓ 10K bytes	✓ 10K bytes	10K bytec
	MAC Address Table Size	4K	8K	8K	8K	8K	10K bytes 8K
	MAC Address Table Size	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)	802.3af (PoE)
Power Over	Standard	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+)	802.3at (PoE+) 802.3bt (PoE++)	802.3at (PoE+) 802.3bt (PoE++)
Ethernet	PoE Ports	8	8	16	12 (PoE)	8 (PoE)	24 (PoE)
	PoE Power Budget	64W	130W	130W	100 Watts	242W	525W
	Time-based PoE		Yes				
	802.3x Flow Control				/		
	Head-of-line (HOL) Blocking Prevention				/		
	802.1D Spanning Tree (STP)				/		
	802.1w Rapid Spanning Tree						
125.4	(RSTP)			•	/		
L2 Features	802.1AX Link Aggregation		1				
	802.3ad Link Aggregation		1				
	Link Aggregation Group Per Device	2 (static port trunk)	8	8	8	8	8
	Port Mirroring Loopback Detection (LBD)				/		
	IGMP Snooping				/		
	802.1Q VLAN	1 ~ 4094	1 ~ 4094	1 ~ 4094	, 1 ~ 4094	1 ~ 4094	1 ~ 4094
	VLAN Groups	32	128	128	128	128	128
Virtual LAN (VLAN)	Port-based VLAN				/		
	Auto Surveillance VLAN		1		1		
	Class of Service (CoS)				/		
Quality of Service	Rate Limiting			-	/		
(QoS)	Strict Priority Queue (SPQ) Weighted Round Robin (WRR)				/		
	Port-based Bandwidth Control			-	/		
	SSL		1		, 		
	Broadcast/Multicast/Unicast Storm Control				/		
Security	Traffic Segmentation			•	/		
	D-Link Safeguard Engine		1		1		
	DoS Attack Prevention		1		√ ∕		
	Web-based GUI SNMP				/		
	SNMP Trap			-	/		
	TFTP Client		1		, ,		
Managament	System Log		1		1		
Management	LLDP		1		✓		
	D-Link Discover Protocol (DDP)				/		
	DHCP/BootP Client				/		
	Cable Diagnostics D-Link Network Assistant				/		
	D-LINK NETWORK ASSISTANT	171×97.8×28.6 mm	280x 180x 44mm	• 280x 230x 44mm	280x 230x 44mm	280x 230x 44mm	440x 330x 44mm
	Weight	0.433 kg	1.50 Kg	2.10 Kg	2.00 Kg	2.00 Kg	4.4 Kg
	Operation Temperature	0 ~ 40 °C	-5-50°C	-5-50°C	-5-50°C	-5-50°C	-5-50°C
	Storage Temperature	- 40 ~ 70 °C	-40-70°C	-40-70°C	-40-70°C	-40-70°C	-40-70°C
	Operation Humidity	0% ~ 90% RH	0%-95% RH	0%-95% RH	0%-95% RH	0%-95% RH	0%-95% RH
Physical and	Storage Humidity	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH	0% ~ 95% RH
Environment	Maximum Power Consumption	4.6 W (PoE off) 77.9W (PoE on)	PoE on : 164.6Watts PoE off: 11.7Watts	PoE on : 166.7Watts PoE off: 18.3Watts	PoE on : 131.5Watts PoE off: 19.5Watts	PoE on : 291.8Watts PoE off: 12.8Watts	PoE on : 619.5Watts PoE off: 38.4Watts
	Standby Power Consumption Power Input	2.0 W AC: 100 ~ 240 V	5.6 Watts AC: 100-240V	10.0 Watts AC: 100-240V	8.8Watts AC: 100-240V	8.1 Watts AC: 100-240V	15.2 Watts AC: 100-240V
		15/11/1 57/A nower adapter					
	Energy Efficiency Ethernet (EEE)	(54V/1.574A power adapter					

Gigabit Ethernet Unmanaged Switches

The DGS-1000 Series consists of Unmanaged Gigabit Switches designed for cost-effective Small Office Home Office (SOHO) and workgroup connection. They support full duplex operation, provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross-over cables, thus simplifying installation. They make use of D-Link Green[™] technology, too, which reduces power consumption and provides a longer product life without sacrificing operational performance or functionality. Recyclable packaging and minimised use of harmful substances (RoHS compliant) make this switch series truly environmentally friendly since it also complies with the Energy-Efficient Ethernet standard.

DGS-1000 Series

DGS-1005C DGS-1008C DGS-1005P **DGS-1005A DGS-1008A** 111111 Bths : 17711111 • 10/100/1000BASE-T ports x 5 • 10/100/1000BASE-T ports x 8 • 10/100/1000BASE-T ports x 8 • 10/100/1000BASE-T ports x 5 • 10/100/1000BASE-T ports x 5 External power supply External power supply • External power supply 4 Ports PoE External power supply Desktop Desktop Desktop Desktop External Power Supply Fanless Fanless • Fanless Fanless Desktop D-Link Green[™] & Energy-Efficient • 60 W PoE Power Budget • D-Link Green[™] & Energy-Efficient • Energy-Efficient Ethernet (EEE) • Energy-Efficient Ethernet (EEE) Ethernet (EEE) Ethernet (EEE) **DGS-1024A DGS-1016C DGS-1016S DGS-1008MP DGS-1016A DGS-1008P** In criterio 2000 2000 • 10/100/1000BASE-T PoE ports x 8 • 10/100/1000BASE-T ports x 24 • 10/100/1000BASE-T ports x 16 10/100/1000BASE-T ports x 16 10/100/1000BASE-T ports x 16 • 10/100/1000BASE-T ports x 8 • Supports 802.3af PoE & 802.3at External power supply External power supply Internal Power Supply External power supply PoF+ Supports 802.3af PoE & 802.3at PoE+ • 11in, 1U desktop with rack-(Port 1- 4) Desktop Desktop Desktop 125 W PoE Power Budget mountable kit • 68 W PoE Power Budget Fanless Fanless Fanless • Internal Power Supply, Fanless Fanless External Power Supply • Desktop with rack-mountable kit • D-Link Green[™] & Energy-Efficient • D-Link Green[™] & Energy-Efficient • Energy-Efficient Ethernet (EEE) Ethernet (EEE) Ethernet (EEE) Ethernet (EEE) • Desktop, Fanless, D-Link Green[™]& • D-Link Green[™]& Energy-Efficient Energy-Efficient Ethernet (EEE) Ethernet (EEE) Energy Energy Efficient dlinkigreen Ethernet **DGS-1024C DGS-1016D DGS-1024D DGS-1026MP** DGS-105/108 Series -----**DGS-105 DGS-108** ---------• 10/100/1000BASE-T ports x 24 • 10/100/1000BASE-T ports x 16 • 10/100/1000BASE-T ports x 24 • 10/100/1000BASE-T PoE ports x 24 anan • 2 Gigabit Combo Uplink ports Internal Power Supply Internal Power Supply Internal Power Supply • 11in, 1U desktop with rack-

• 11in, 1U desktop with rackmountable kit

mountable kit

Ethernet (EEE)

• D-Link Green[™] & Energy-Efficient

Fanless

- Fanless
- Energy-Efficient Ethernet (EEE)

Key Series Features

IEEE 802.3x Flow Control

Quality of Service (QoS)

*Functions Listed above are Model Dependent.

Jumbo frame

Auto MDI/MDIX

Cable diagnostics

• Power savings by link status

• Power savings by cable length detection

- D-Link Green[™] & Energy-Efficient

- (Ethernet/SFP) Internal Power Supply
- Supports 802 3af PoF and 802.3af PoE+
- 370 W PoE Power Budget
- 19in, 1U rack-mount • 2 x Smart Fans
- Energy-Efficient Ethernet (EEE)



Robust metal product housing

D-Link GreenTM & Energy-Efficient

Cable diagnostics function

Fanless

Ethernet (EEE)

- Robust metal product housing Cable diagnostics function
- Fanless
- D-Link GreenTM & Energy-Efficient Ethernet (EEE)

- 11in, 1U desktop with rack-
- D-Link Green[™] & Energy-Efficient

- mountable kit Fanless
- Ethernet (EEE)

		Train	(m - sinnii -)				-	
MODEL		DGS-1005A	DGS-1008A	DGS-1005C	DGS-1008C	DGS-1008P	DGS-1008MP	
Interfaces	1000BASE-T (Gigabit)	5	8	5	8	8	8	
	Switching Capacity	10 Gbps	16 Gbps	10 Gbps	16 Gbps	16 Gbps	16 Gbps	
	Max Packet Forwarding Rate	7.44 Mpps	11.9 Mpps	7.44 Mpps	11.9 Mpps	11.9 Mpps	11.9 Mpps	
C	Packet Buffer Memory	128 KB	128 KB	256 KB	256 KB	256 KB	192 KB	
General Features	MAC Address Table	2000	8000	2000	8000	8000	4000	
	Flow Control		IEEE 802.3x Flow Control					
	Jumbo Frame	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	
	Standard	802.1p	802.1p	802.1p	802.1p	802.1p, DSCP		
Quality of Service (QoS)	Number of Queues	4	4	4	4	4		
	Mode	Strict	Strict	Strict	Strict	Strict		
	Standard					802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)	
Power over Ethernet	PoE Ports					4	8	
	PoE Power Budget					68 W	140 W	
	Power Supply			External			Internal	
	Power-Saving Technology		EE 802.3az Energy- hernet (EEE)	IEEE 802.3az Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)		
Physical and Environment	Number of Fans				0			
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	
	Operating Humidity		10% to 90% RH	Non-Condensing		0% to 95% RH Non-Condensing	5% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	91 x 73 x 22 mm	131 x 82 x 22 mm	106 x 87 x 21.45mm	151.2 x 96 x 22 mm	190 x 120 x 38 mm	280 x 180 x 44 mm	

			D BANK				
MODEL		DGS-1016A	DGS-1024A	DGS-1016C	DGS-1024C	DGS-1016D	DGS-1024D
Interfaces	1000BASE-T (Gigabit)	16	24	16	24	16	24
	Switching Capacity	32 Gbps	48 Gbps	32 Gbps	48 Gbps	32 Gbps	48 Gbps
	Max Packet Forwarding Rate	23.81 Mpps	35.71 Mpps	23.81 Mpps	35.71 Mpps	23.81 Mpps	35.71 Mpps
General Features	Packet Buffer Memory	2 Mbits	3.5 Mbits	256 KB	512 KB	512 KB	512 KB
General Features	MAC Address Table	8000	16000	8000	16000	8000	8000
	Flow Control	IEEE 802.3x Flow Control					
	Jumbo Frame	9600 Bytes	9600 Bytes	9216 Bytes	9216 Bytes	9216 Bytes	9600 Bytes
	Standard			802.1p	802.1p	802.1p	802.1p
Quality of Service (QoS)	Number of Queues			8	8	4	4
	Mode			Strict	Strict	Strict	Strict
	Standard						
Power over Ethernet	PoE Ports						
	PoE Power Budget						
	Power Supply	Exte	ernal	Internal			
	Power-Saving Technology		EE 802.3az Energy- hernet (EEE)	IEEE 802.3az Energy-E	fficient Ethernet (EEE)		EE 802.3az Energy- hernet (EEE)
Physical and Environment	Number of Fans			0			
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
	Operating Humidity	5% to 90% RH I	Non-Condensing	10% to 90% RH	Non-Condensing	5% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	231 x 158 x 46 mm	257 x 178 x 46 mm	282.2 x 178 x 44.5 mm	282.2 x 178 x 44.5 mm	280 x 180 x 44 mm	280 x 180 x 44 mm

MODEL		D65-105	DG5-108			
Interfaces	1000BASE-T (Gigabit)	5	8			
	Switching Capacity	10 Gbps	16 Gbps			
	Max Packet Forwarding Rate	7.44 Mpps	11.9 Mpps			
General Features	Packet Buffer Memory	128 KB				
General realures	MAC Address Table	2000	8000			
	Flow Control	IEEE 802.3x Flow Control				
	Jumbo Frame	9216 Bytes				
	Standard	IEEE 802.1p				
Quality of Service (QoS)	Number of Queues	nber of Queues 4 Queues				
	Mode	Strict				
	Power Supply	External				
Physical and	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)				
	Number of Fans	0				
Environment	Operating Temperature	0°C to 40°C				
	Operating Humidity	10% to 90% RH	Non-Condensing			
	Dimensions (W x D x H)	100 x 98 x 28 mm	162 x 102 x 28 mm			

Fast Ethernet Unmanaged Switches

The DES-1000 Series of Fast Ethernet Unmanaged Switches is designed for cost effective Small Office Home Office (SOHO) and workgroup connection. They use standard CAT5 copper twisted-pair wires as the network cable, and support full/half duplex operation for 10/100 Mbps speeds. These switches provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDI-X to eliminate the need for cross-over cables, thus simplifying installation.

DES-1000 Series

DES-1005A / DES-1008A

DES-1005C / DES-1008C

• 10/100BASE-TX ports x 5 or 8

• Energy-Efficient Ethernet (EEE)

External power supply

1948411111111111

Dilbik

Desktop

Fanless

1-13MR 2 2 2 2 1

- 10/100BASE-TX ports x 5 or 8
- External power supply
- Desktop
- Fanless
- D-Link Green[™] & Energy-Efficient Ethernet (EEE)

DES-1016A / DES-1024A



- 10/100BASE-TX ports x 16 or 24
- External power supply
- Desktop
- Fanless
- D-Link Green™& Energy-Efficient Ethernet (EEE)

DES-1008PA



- 10/100BASE-TX ports x 8
- Supports 802.3af PoE (Port 1 4)
- 58 W PoE Power Budget
- External power supply
- Desktop, Fanless
- D-Link Green™& Energy-Efficient Ethernet (EEE)

DES-1016C / DES-1024C



- 10/100BASE-TX ports x 16 or 24
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- Energy-Efficient Ethernet (EEE)

DES-1018MP



- 10/100BASE-TX ports x 16
- 10/100/1000BASE-T/SFP Combo ports x 2
- Supports 802.3af PoE (Port 1 16)
- 246.4 W PoE Power Budget
- 19in rack-mountable, EEE
- 1 Smart Fan, Internal power supply

DES-1016D / DES-1024D



- 10/100BASE-TX ports x 16 or 24
- Internal power supply
- 11in, 1U desktop with rack-mountable kit
- Fanless
- D-Link Green[™] & Energy-Efficient Ethernet (EEE)

Key Series Features

- Fanless
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Plug-and-Play installation
- Quality of Service (QoS)

*Functions Listed above are Model Dependent.



		Base : 1 1 1 1 1			27 1111111	NUM CONTRACTOR CONTRACTOR
MODEL		DES-1005A	DES-1008A	DES-1005C	DES-1008C	DES-1008PA
Interfaces	100BASE-TX (Fast Ethernet)	5	8	5	8	8
	Switching Capacity	1 Gbps	1.6 Gbps	1 Gbps	1.6 Gbps	1.6 Gbps
	Max Packet Forwarding Rate	0.74 Mpps	1.19 Mpps	0.74 Mpps	1.19 Mpps	1.19 Mpps
General Features	Packet Buffer Memory	48 KB	96 KB	96 KB	96 KB	96 KB
	MAC Address Table	2000	2000	2000	2000	2000
	Flow Control	IEEE 802.3x Flow Control				
	Jumbo Frame			2048 Bytes	2048 Bytes	
	Standard	802.1p				
Quality of Service (QoS)	Number of Queues					
	Mode					
	Standard					802.3af (PoE)
Power over Ethernet	PoE Ports					4
	PoE Power Budget					58 W
	Power Supply	External				
	Power-Saving Technology	Green Ethernet, IEEE 802.3az Energ	y-Efficient Ethernet (EEE)	Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)
Physical and Environment	Number of Fans	0				
	Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
	Operating Humidity	10% to 90% RH Non-Condensing				5% to 90% RH Non-Condensing
	Dimensions (W x D x H)	87 x 47.85 x 21.7 mm	141.5 x 78.5 x 23.8 mm	88 x 48 x 21.45 mm	131 x 54 x 21 mm	140 x 77 x 27 mm

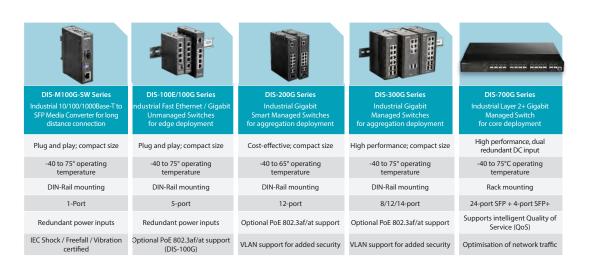
		2017 10010000	29 4.000. 100 - 11 11 11 11 11				
MODEL		DES-1016A	DES-1024A	DES-1016C	DES-1024C	DES-1016D	DES-1024D
Interfaces	100BASE-TX (Fast Ethernet)	16	24	16	24	16	24
	Switching Capacity	3.2 Gbps	4.8 Gbps	3.2 Gbps	4.8 Gbps	3.2 Gbps	4.8 Gbps
	Max Packet Forwarding Rate	2.38 Mpps	3.57 Mpps	2.38 Mpps	3.57 Mpps	2.38 Mpps	3.57 Mpps
General Features	Packet Buffer Memory	2 Mbits	2.5 Mbits	256 KB	256 KB	2 Mbits	2 Mbits
	MAC Address Table	8000	8000	8000	8000	8000	8000
	Flow Control	IEEE 802.3x Flow Control					
	Jumbo Frame			9216 Bytes	9216 Bytes		
	Standard	802.1p	802.1p	802.1p	802.1p	802.1p	802.1p
Quality of Service (QoS)	Number of Queues	2	2	4	4	4	4
	Mode	Strict	Strict	Strict	Strict	Strict	Strict
	Power Supply	External	External	Internal	Internal	Internal	Internal
	Power-Saving Technology	Green Ethernet, IEEE 802.3az En	ergy-Efficient Ethernet (EEE)	IEEE 802.3az Energy-Efficient Ethernet (EEE)		Green Ethernet, IEEE 802.3az Energy-Efficient Ethernet (EEE)	
Dhucical and Environment	Number of Fans	0					
Physical and Environment	Operating Temperature	0°C to 40°C					
	Operating Humidity	10% to 90% RH Non-Conder	nsing				
	Dimensions (W x D x H)	155.7 x 122 x 41 mm	231 x 158 x 46 mm	282.2 x 151 x 44.5 mm	282.2 x 151 x 44.5 mm	280 x 125.8 x 44 mm	280 x 125.8 x 44 mm

MODEL		DES-1018MP
	100BASE-TX (Fast Ethernet)	16
Interfaces	10/100/1000BASE-T/SFP Combo Slots	2
	Switching Capacity	7.2 Gbps
	Max Packet Forwarding Rate	5.36 Mpps
General Features	Packet Buffer Memory	384 KB
	MAC Address Table	8000
	Flow Control	IEEE 802.3x Flow Control
	Standard	802.3af (PoE)
Power Over Ethernet (PoE)	PoE Ports	16
	PoE Power Budget	246.4 W
	Power Supply	Internal
	Power-Saving Technology	IEEE 802.3az Energy-Efficient Ethernet (EEE)
Physical and Environment	Number of Fans	1
Thysical and Environment	Operating Temperature	0°C to 40°C
	Operating Humidity	0% to 95% RH Non-Condensing
	Dimensions (W x D x H)	280 x 210 x 44 mm



Industrial Ethernet Switches Rugged and reliable

D-Link's Industrial Ethernet Switches are designed specifically to withstand wide temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity.



Designed for a more connected future

1 Rugged, Hardened Design

Design to operate in wide temperature ranges, vibration, shock, allowing the switches to be deployed in enclosures or cabinets in outdoor locations

2 High Availability

Comprehensive network redundancy features with fast fault recovery, together with advanced security features provides industrial-grade reliability and protection

8 Flexible Options

Wide selection of port density, media and PoE provides customer with the flexibility to choose the right switch that best fits their requirement

Fact Ring Fallover <20 ms Fast Ring Fallover <20 ms DIS-300G Series Pac Cameras Naccas points Access points DIS-300G Series		
PoE Cameras PoE Cameras PoE Cameras PoE Cameras PoE Cameras Cameras PoE Cameras Access points Access po		DIS-700G Series
	Cameras POE Cameras	DIS-300G Series
PoE Access points Access points		DI5-100G Series
	PoE Access points	Access points

Deployment So	enario

00000	anen regunement
MODEL	ACCESSORIES
DIS-S301SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 550 m • -40~85°C operating temperature
DIS-S302SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 2 km • -40~85°C operating temperature
DIS-S310LX	1-port Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre Transceiver • up to 10 km • -40~85°C operating temperature
DIS-S330EX	1-port Mini-GBIC SFP to 1000BaseEX Single-Mode Fibre Transceiver • up to 30 km • -40~85°C operating temperature
DIS-S350LHX	1-port Mini-GBIC SFP to 1000BaseLHX Single-Mode Fibre Transceiver • up to 50 km • -40~85°C operating temperature
DIS-S380ZX	1-port Mini-GBIC SFP to 1000BaseZX Single-Mode Fibre Transceiver • up to 80 km • -40~85°C operating temperature
DIS-H30-24	30W 24VDC Ultra Slim DIN Rail PSU Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-357.7.5 or 15 mountable • -30~70°C operating temperature
DIS-H60-24	60W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
DIS-N240-48	240W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
DIS-N480-48	480W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature

Industrial Layer 2+ Gigabit Managed Switch

DIS-700G Series

The DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch are designed specifically to withstand temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity.

The DIS-700G-28XS L2+ Gigabit Managed Switch with 10 Gigabit uplinks is a 28-port aggregation switch. It provides high overall throughput and reduces the response time for time-sensitive video, voice and data applications. It offers advanced intelligent Quality of Service (QoS) features such as SPQ, WRR, SPQ+ WRR scheduling schemes with hierarchical per port, per queue shaping & scheduling with bandwidth management.



		House states and a day
	MODEL	DIS-700G-28XS
	Number of Fast Ethernet ports	
	Number of Gigabit ports	
	Number of SFP ports	24
	Number of 10G SFP+ ports	4
	PoE standards	
	PoE power budget	
щ	PoE capable ports	
WAR	Input voltage range	Dual 20-58 VDC
ARD	Compatible power supplies	Built-in
I	Redundant power input option	
	Mounting option	19" rack mount
	Operating temperature range	-40 to +75°C
	Vibration, shock and freefall certification	
	NEMA-TS2, EN50121-4 (compliant)	
	EMC certification	
	Ingress protection	
	MAC address	8K
	802.1D STP, 802.1w RSTP, 802.1s MSTP	
С	Fast Failover Protection Rings	• (<20ms)
	802.3ad, 802.1AX link aggregation	•
	VLAN group (max static)	2048
	Port/MAC/protocol-based VLAN, GVRP	•
ALAN	Port-based double VLAN	•
z	Auto-Servillance, Voice VLAN	
	Multicast protocols	IGMP v1/v2/v3, IGMP snooping
	802.1p	
	Policy-based access control engine	Multi-layer ACL
SS	Number of queues per port	8
a	Traffic shaper	Port/queue-based shaping & scheduling
	Traffic policer	TrTCM
URITY	Multicast/Broadcast/Flooding Storm Control	•
SEC	Access control	IP/MAC/policy-based
AAA	802.1X access control	•
A	RADIUS/TACACS+ authentication	RADIUS only
-	SNMP (v1/v2c/v3), RMON v1	•
AEN.	Web-based management	
AGEN	Command line interface (CLI)	•
IANA	HTTPs, SSH	•

Key Series Features

FLEXIBILITY AVAILABILITY

- SFP & SFP+ port for high bandwidth connection
- Plug-and-Play installation

ROBUST AND HIGH-REDUNDANCY DESIGN

- Wide operating temperature (-40°to 75°C)
- High EMC endurance
- Durable IP-30-rated housing
- 19" rack mounting

FULLY CERTIFIED

- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- Ce, UL, FCC,
- RoHS
- WEEE compliant

ADVACED FEATURES

- Intelligent QoS
- Comprehensive Security Features
- Multi-Layer ACL
- Multicast/Broadcast/Storm Control
- 9KB Jumbo Frame
- Single & Multiple rings supported with < 20ms
- IEEE 802.1p QoS
- IEEE 802.1Q tag-based VLANs • IEEE 802.1ad Double Tagging
- (Q in Q)
- Static trunk or Dynamic via LACP
- IEEE 802.1X authentication **Network Access Control**





	MODEL	ACCESSORIES
	DIS-H30-24	30W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
POWER SUPPLIES	DIS-H60-24	60W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
POWER S	DIS-N240-48	240W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
	DIS-N480-48	480W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
IVERS	DIS-S301SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 550 m • -40~85°C operating temperature
SFP TRANSCEIVERS	DIS-S302SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 2 km • -40~85°C operating temperature
SFP T	DIS-S310LX	1-port Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre Transceiver • up to 10 km

-40~85°C operating temperature

		rearriber of digable ports	
		Number of SFP ports	24
		Number of 10G SFP+ ports	4
		PoE standards	
		PoE power budget	
	ш	PoE capable ports	
	HARDWAR	Input voltage range	Dual 20-
		Compatible power supplies	Buil
		Redundant power input option	
		Mounting option	19″ rack
		Operating temperature range	-40 to
		Vibration, shock and freefall certification	
		NEMA-TS2, EN50121-4 (compliant)	
		EMC certification	
		Ingress protection	
		MAC address	81
		802.1D STP, 802.1w RSTP, 802.1s MSTP	
	Ц	Fast Failover Protection Rings	• (<20
		802.3ad, 802.1AX link aggregation	
		VLAN group (max static)	204
		Port/MAC/protocol-based VLAN, GVRP	
	VLAN	Port-based double VLAN	
	₹	Auto-Servillance, Voice VLAN	
		Multicast protocols	IGMP v1
			IGMP sn
		802.1p	
		Policy-based access control engine	Multi-la
	SOS	Number of queues per port	8
		Traffic shaper	Port/queu shaping & s
		Traffic policer	TrT
	È	Multicast/Broadcast/Flooding	
	SECURITY	Storm Control	
		Access control	IP/MAC/po
	AAA	802.1X access control	•
	_	RADIUS/TACACS+ authentication	RADIU
	Ł	SNMP (v1/v2c/v3), RMON v1	•
	EME	Web-based management	•
	MANAG	Command line interface (CLI)	•
		HTTPs, SSH	•

DIS-700G-28X

- 24 x SFP ports
- 4 x 10G SFP+
- 1 U Rack Mount
- Highly resistant IP30-rated metal case
- · Easy-to-control management interfaces and security
- Operating Temperature: -40°to 75°C
- Certified for vibration, shock, free-fall, EMC

Layer 2 Gigabit Industrial Managed Switches

DIS-300G Series

The DIS-300G Series Industrial Gigabit Managed Switches are designed specifically to withstand wide temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity. With its comprehensive feature set, DIS-300G managed switches are easy to configure, partition and organise user's network and provide reliable and quality of service. The DIS-300G-8PSW and DIS300G-14SPW switches are PoE switches which are compliant with both IEEE 802.3af and IEEE 802.3at PoE standards and delivering up to 30 watts power per port along with data on standard Ethernet cabling. These switches can be used to power any IEEE 802.3af/at compliant PoE PD devices, which eliminates the need for additional wiring. They also provide additional PoE power management features which can greatly reduce the deployment effort of planning PoE power budget.



Series include the below models

DIS-300G-12SW

- 100/1000BASET ports x 8
- SFP slots x 4
- Fanless
- DIN Rail
- Highly resistant IP30-rated metal case
- · Easy-to-control management interfaces and security
- Operating Temperature: -40°to 75°C
- · Certified for vibration, shock, free-fall, EMCs

DIS-300G-8PSW

- 100/1000BASET ports x 6 (1-4 PoE Port)
- SFP slots x 2
- IEEE 802.3 af/at
- Fanless
- DIN Rail
- Highly resistant IP30-rated metal case
- Easy-to-control management interfaces and security
- Operating Temperature: -40°to 75°C
- Certified for vibration, shock, free-fall, EMC

Key Series Features

FLEXIBILITY AVAILABILITY

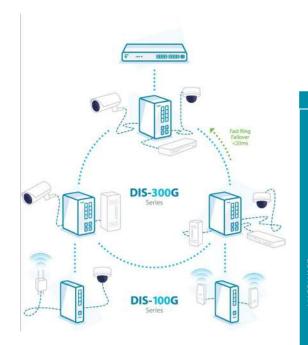
- Available in PoE and non-PoE Models
- SFP port for long distance connections
- Plug-and-Play installation

ROBUST AND HIGH-REDUNDANCY DESIGN

- Fanless, passive cooling design
- Wide operating temperature (-40°to 75°C)
- High EMC endurance
- Durable IP-30-rated housing
- Dual Power input for redundant power supplies
- Din-Rail and Wall mounting options
- FULLY CERTIFIED
- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- Ce, UL, FCC,
- NEMA-TS2
- RoHS
- WEEE compliant
- ADVACED FEATURES
- Multicast/Broadcast/Storm Control
- 9KB Jumbo Frame
- Ring Protection with < 20ms
- IEEE 802.1p QoS
- IEEE 802.1Q tag-based VLANs
- IEEE 802.1ad Double Tagging (Q in Q)
- Static trunk or Dynamic via LACP
- IEEE 802.1X authentication Network Access Control)

DIS-300G-14PSW

- 100/1000BASET ports x 10 (1-8 PoE Port)
- SFP slots x 4
- IEEE 802.3 af/at
- Fanless
- DIN Rail
- Highly resistant IP30-rated metal case
- Easy-to-control management interfaces and security
- Operating Temperature: -40°to 75°C
- Certified for vibration, shock, free-fall, EMC



	MODEL	ACCESSORIES
	DIS-H30-24	30W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
UPPLIES	DIS-H60-24	60W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
POWER SUPPLIES	DIS-N240-48	240W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
	DIS-N480-48	480W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
VERS	DIS-S301SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 550 m • -40~85°C operating temperature
SFP TRANSCEIVER	DIS-S302SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 2 km • -40~85°C operating temperature
SFPT	DIS-S310LX	1-port Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre Transceiver • up to 10 km • -40~85°C operating temperature

	MODEL	DIS-300G-12SW	DIS-300G-8PSW	DIS-300G-14PSW
	Number of Fast Ethernet ports			
	Number of Gigabit ports	8	6	10
	Number of SFP ports	4	2	4
	Number of 10G SFP+ ports			
	PoE standards		802.3af, 802.3at	802.3af, 802.3at, 60W (port 1 and 2 only)
	PoE power budget		120 W	240 W
	PoE capable ports		Ports 1-4, up to 30 W	Ports 1-2, up to 60 W Ports 3-8, up to 30 W
NARE	Input voltage range	12-58 VDC	48-58 VDC (54~58V VDC for PoE+)	48-58 VDC (54~58V VDC for PoE+)
HARDWARE	Compatible power supplies	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48
	Redundant power input option	•	•	
	Mounting option	Din-rail and wall	Din-rail and wall	Din-rail and wall
	Operating temperature range	-40 to +75°C	-40 to +75°C	-40 to +75°C
	Vibration, shock and freefall certification			
	NEMA-TS2, EN50121-4 (compliant)	•	•	•
	EMC certification			
	Ingress protection			
	MAC address	8K	8K	8K
Ц	802.1D STP, 802.1w RSTP, 802.1s MSTP	•	•	•
	Fast Failover Protection Rings	• (<20ms)	• (<20ms)	• (<20ms)
	802.3ad, 802.1AX link aggregation	•	•	•
	VLAN group (max static)	256	1024	1024
	Port/MAC/protocol-based VLAN, GVRP	•	•	•
VLAN	Port-based double VLAN	•	•	•
>	Auto-Servillance, Voice VLAN			
	Multicast protocols	IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping
	802.1p	•	•	•
S	Policy-based access control engine			
QOS	Number of queues per port	8	8	8
	Traffic shaper	Port-based	Port-based	Port-based
	Traffic policer			
SECURITY	Multicast/Broadcast/Flooding Storm Control	•	•	•
Щ	Access control	IP/MAC/policy-based	IP/MAC/policy-based	IP/MAC/policy-based
AAA	802.1X access control	•	•	•
A	RADIUS/TACACS+ authentication	•	•	•
	SNMP (v1/v2c/v3), RMON v1	•	•	•
Ę	Web-based management	•	•	•
MANAGEMENT	Command line interface (CLI)	•	•	•
IAGE	HTTPs, SSH	•	•	•
MAN	Syslog	•	•	•
	Command Line Interface (CLI)	Full	Full	Full
	Console port	RJ45	RJ45	RJ45

Layer 2 Gigabit Industrial Smart Managed Switches

DIS-200G Series

The DIS-200G Series Layer 2 Gigabit Outdoor Smart Managed Switches are equipped with 8 PoE-capable 10/100/1000BASE-T ports (PoE models), 2 10/100/1000BASE-T ports, and 2 SFP ports. These switches feature a robust design making them ideal for deployment in outdoor environments, capable of withstanding the harshest environments. The DIS-200G Series furthermore integrates advanced management and security functions to provide a complete solution. The DIS-200G Series switches are housed in a highly resistant IP30-rated metal casing to protect the switches from harsh environmental conditions. The high electromagnetic compatibility (EMC) protects the DIS-200G Series from unwanted effects when operating in environments with strong electromagnetic interference. Meanwhile, the fanless design extends the life of DIS-200G Series while also being able to operate in a wider temperature range of up to 75 °C. For increased flexibility, the DIS-200G Series can also be mounted on a DIN rail, wall mounted, or be installed in an equipment rack. Additionally, the DIS-200G Series features 6 kV surge protection on all copper ports to help prevent damage to the switch and connected devices caused by sudden power surges and lightning strikes. The in-built surge protection of up to 6 kV can mitigate the damage to the switch from both indoor and outdoor devices and network connections by absorbing the excess energy while still letting

the amount of power through required for the switch to operate normally. This increases network reliability, reduces repair costs, and removes the need for replacement hardware in the event of an electrical surge or lightning strike.

Series include the below models

DIS-200G-12S

- 10/100/1000BASE-T ports x 10
- SFP ports x 2
- Fanless
- DIN rail/wall/rack mountable installation
- 6 kV surge protection on copper ports
- · IP30 housing to withstand harsh operating environments
- Operating Temperature: -40 to 65 °C

DIS-200G-12SW

- 10/100/1000BASE-T ports x 10
- SFP ports x 2
- Fanless
- · DIN rail/wall/rack mountable installation
- 6 kV surge protection on copper ports
- IP30 housing to withstand harsh operating environments

Optional Accessories

• Operating Temperature: -40 to 75 °C

DIS-200G-12PS

- 10/100/1000BASE-T PoE ports x 8
- 10/100/1000BASE-T ports x 2
- SFP ports x 2
- 802.3af(PoE) and 802.3at(PoE+) support
- 240W PoE power budget
- Fanless
- - · DIN rail/wall/rack mountable installation 6 kV surge protection on copper ports
 - IP30 housing to withstand harsh operating environments
 - Operating Temperature: -40 to 65 °C

Ĉ Ē Ĉ HHH T

DIS-200G-12PSW

- 10/100/1000BASE-T PoE ports x 8
- 10/100/1000BASE-T ports x 2
- SFP ports x 2
- 802.3af(PoE) and 802.3at(PoE+) support
- 240W PoE power budget
- Fanless
- · DIN rail/wall/rack mountable installation
- 6 kV surge protection on copper ports • IP30 housing to withstand harsh operating

Key Series Features

FLEXIBLE AVAILABILITY

- Available in PoE and non-PoE models
- Outdoor model variations with wider operating temperature ranges

ROBUST AND HIGH-REDUNDANCY DESIGN

- Fanless, passive cooling design
- High EMC endurance
- 6 kV surge protection on copper ports
- Ethernet Ring Protection Switching (ERPS)
- Dual power input for redundant power supplies

LAYER 2 FEATURES

- IEEE 802.1Q and port-based VLAN
- IEEE 802.1p Quality of Service (QoS)
- STP/RSTP/MSTP
- Port mirroring
- Link aggregation
- Bandwidth control
- Broadcast storm control
- IGMP/MLD Snooping
- ADVANCED FEATURES
- Auto Surveillance VLAN 2.0 (ASV 2.0)

- 40 W, 100 ~ 240 V AC input, 12 V DC output power adapter with 60 °C operating temperature for DIS-200G-12S and DIS-200G-12SW 180 W, 100 ~ 240 V AC input, 54 V DC output power adapter with 60 °C operating temperature for DIS-200G-12PS and DIS-200G-12PSW Rack mount kit Standard 19" rack mounting kit
- DIS-RK200G

- - - environments
 - Operating Temperature: -40 to 75 °C



DIS-PWR180AC

Optional Accessories DIS-PWR40AC

			POE	PC	DE			
MODEL		DIS-200G-125	DGS-200G-125W	DIS-200G-12PS	DIS-200G-12PSW			
Interfaces	Gigabit Ethernet		1	0				
interfaces	SFP Slots		:	2				
	Switching Capacity	24 Gbps						
	Forwarding Mode	Store-and-Forward						
General	Packet Buffer Memory	4 MB						
Features	MAC Address Table	up to 8K Entries						
	Flow Control	802.3x, HOL Blocking Prevention						
	MDI/MDIX	Configurable						
Layer 2 Features	Loop Protection		802.ID, 802	.1W, 802.15				
	803.2ad Link Aggregation		Max. 6 Groups per De	vice, 8 Ports per Group				
	Port Mirroring		One-to-One, Many-	to-One, RX/TX/Both				
	Loopback Detection			/				
	Cable Diagnostics			1				
	VLANs		4096	Static				
Virtual LAN	GVRP		1	/*				
(VLAN)	Auto Voice VLAN			/				
	Auto Surveillance VLAN			1				
Market and the second	Groups		6	64				
Multicasting	Protocols	IGMP v1, v2, v3*						
	Standard		802	2.1p				
	Number of Queues			4				
Quality of Service (QoS)	Mode	Strict / WRR						
Service (Q03)	CoS Handling	802.1p, TOS/IP Preference						
	Bandwidth Control	Port-Based						
	Per-Port MAC Limitation	\checkmark						
	Static MAC	64						
Security	Storm Control	Broadcast / Multicast / Unicast						
	Traffic Segmentation	\checkmark						
	D-Link SafeGuard Engine	/						
	802.1x Authentication	Port-Based						
Authentication,	Web-Based Access Contol (WAC)	√ *						
Authorisation and	Web-Based Access Contol (MAC)	✓*						
Accounting (AAA)	Web-Based Access Contol (NAP)		-	—				
	Guest VLAN		-		902 2- <i>£</i> (D- E)			
Power over	Standard	—	—	802.3af (PoE) 802.3at (PoE+)	802.3af (PoE) 802.3at (PoE+)			
Ethernet	PoE Ports	_	_	8	8			
	PoE Power Budget	—	_	130W	130W			
	Switch Access	Web GUI/D-Link Network Assistant						
	SNMP	v1 / v2c / v3*						
Management	DHCP		Cli	ent				
Management	RMON							
	TFTP Client	\checkmark						
	Syslog							
	Power Supply	12-48 VDC, redundant dual inputs through terminal block/ 48-54 VDC, redundant dual inputs through terminal block/ 12 VDC through 4-pin power din 54 VDC through 4-pin power din						
	Power-Saving Technology	Link Status, Cable Length Detection, LED or Port Shutoff, Port Standby Mod, System Hibernation						
Physical and	Number of Fans	Fanless						
Environment	Operating Temperature	-40°C to 65°C	-40°C to 75°C	-40°C to 65°C	-40°C to 75°C			
	Operating Humidity	0% to 95% RH Non-Condensing						
	Dimensions (W x D x H)	210 x 171.2 x 48 mm						
Modules/	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT						
Transceivers								

* This feature will be supported in future firmware release

Unmanaged Gigabit Industrial Switches

DIS-100G Series

The DIS-100G Series Gigabit Industrial Unmanaged Switches are equipped with a variety of port combinations including 10/100/1000BASE-T non-PoE or PoE ports, and SFP ports. These switches feature a robust design making them ideal for deployment in industrial and outdoor cabinet surveillance settings, capable of withstanding the harshest environments. The DIS-100G Series switches are housed in a highly resistant IP30-rated metal casing to help protect them from harsh environmental conditions. The high electromagnetic compatibility (EMC) helps protect the DIS-100G Series from unwanted effects when operating in environments with strong electromagnetic interference. The fanless design extends the life of the DIS-100G Series while also being able to operate in a wide temperature range from -40 °C up to 75 °C. For increased flexibility, the DIS-100G Series can also be mounted on a DIN rail or conveniently mounted on a solid surface wall. In addition, the DIS-100G Series supports dual power input which allows for a redundant power supply configuration to make sure the switches continue to operate in the event of a primary power supply failure.



Series include the below models

DIS-100G-5PSW

- 10/100/1000BASE-T PoE ports x 4
- SFP ports x 1
- Fanless
- DIN Rail
- · Highly resistant IP30-rated metal casing
- 802.3af/at (Up to 120W)
- SFP ports x 1 Fanless

DIS-100G-5SW

- DIN Rail

DIS-100G-5W

- 10/100/1000BASE-T ports x 5
- Fanless
- DIN Rail
- Highly resistant IP30-rated metal casing
- Operating Temperature: -40 to 75°C

Key Series Features

FLEXIBLE AVAILABILITY

- Available in PoE and non-PoE models
- SFP port for long distance connections
- · Plug-and-Play installation

ROBUST AND HIGH-REDUNDANCY DESIGN

- Fanless, passive cooling design
- Wide operating temperature (-40 \sim 75 °C)
- High EMC endurance
- Durable IP30-rated housing
- Dual power input for redundant power supplies

FULLY CERTIFIED

- Shock IEC 60068-2-27
- Freefall IEC 60068-2-32
- Vibration IEC 60068-2-6
- UL/CE/FCC
- NEMA-TS2
- EN50121-4 compliant
- UL C1D2 compliant (DIS-100G-5PSW)
- ADVANCED FEATURES
- Multicast/Unicast/Storm Control
- 9 KB Jumbo Frame
- IEEE 802.3x Flow Control
- IEEE 802.1g Ouality of Service (OoS) with 4 hardware queues per port

Optional Accessories

Optional SFP Transceivers

- DIS-S310LX
 DIS-S301SX
- 1000BASE-LX, single-mode, 10 km, -40 to 85 °C operating temperature 1000BASE-SX, multi-mode, 550 m, -40 to 85 °C operating temperature

Optional Accessories

- DPE-SP110 DPF-SP110I
- Outdoor PoE Ethernet Surge Protector Ethernet Surge Protector

 Highly resistant IP30-rated metal casing Operating Temperature: -40 to 75°C

• 10/100/1000BASE-T ports x 4

*Take note that all the switches does not come equip with PSU (Power Supply Unit)

- Operating Temperature: -40 to 75°C

			N POE	POE		
MODEL		DGS-100G-5SW	DGS-100G-5W	DIS-100G-5PSW		
General	Hardware Version Number of Ports	A1 4 x 10/100/1000BASE-T ports	A1 5 x 10/100/1000BASE-T ports	A1 4 x 10/100/1000BASE-T PoE ports		
	Port Functions	1 x SFP port	1x SFP ports			
	Media Interface Exchange		Auto-MDI/MDIX adjustment for all twisted pair ports			
Performance	Switching Capacity Maximum Forwarding Rate MAC Address Table Size Transmission Method		10 Gbps 7.44 Mpps Up to 2K entries Store-and-forward			
	Jumbo Frame		9 KB			
	Advanced Features	IE	Broadcast/Multicast/Unicast Storm Control EEE 802.1p Quality of Service (QoS) - 4 hardware queues per p	port		
PoE	PoE Standards	N/A	N/A	IEEE 802.3af/at		
	PoE Capable Ports	N/A	N/A	Ports 1 to 4		
	PoE Power Budget	N/A	N/A	Max. 120 W1		
	Diagnostic LEDs	ALM P1/P2 Link/Activity/Speed	ALM P1/P2 Link/Activity/Speed	ALM P1/P2 Link/Activity/Speed PoE status		
	Power Input	12 to 58 V DC terminal block dual input	12 to 58 V DC terminal block dual input	48 to 58 V DC terminal block dual input		
	Power Consumptions	Maximum: 3.82 W	Maximum: 3.18 W	Maximum: 131.57 W (PoE on)		
	Alarm Relay			4.46 W (PoE off)		
	Alaliii helay			448.94 BTU/hr (PoE on)		
	Heat Dissipation	13.03 BTU/hr	10.85 BTU/hr	15.22 BTU/hur (PoE off)		
	Weight	0.32 kg (0.71 lbs)	0.32 kg (0.71 lbs)	0.50 kg (1.10 lbs)		
	Dimensions	112.2 x 29.1 x 89.4 mm (4.42 x 1.15 x 3.52 inches)	112.2 x 29.1 x 89.4 mm (4.42 x 1.15 x 3.52 inches)	139 x 29 x 107 mm (5.47 x 1.14 x 4.21 inches)		
	Ventilation Operating Temperature		Fanless, passive cooling			
	Storage Temperature	-40 to 75 °C (-40 to 167 °F) -40 to 85 °C (-40 to 185 °F)				
Physical	Operating Humidity	5% to 95% RH, non-condensing				
,	Storage Humidity	5% to 95% RH, non-condensing				
	Material Installation	IP30-rated metal casing				
	MTBF	DIN rail/wall-mountable >25 years				
			UL/CE/FCC			
	Certifications	NEMA-TS2 EN50121-4 compliant UL C1D2 compliant (DIS-100G-SPSW)				
	Safety	UL60950-1 (DIS-100G-5W/5SW) UL61010-1, UL61010-2-201, UL C1D2 (DIS-100G-5PSW) 47 CFR FCC Part 15 Subpart B (Class A)				
	EMI	47 CFK FCC Fart 15 Subpart 6 (Class A) ICES-003 Issue 6 (Class A)				
	EMC	EN61000-6-2 EN61000-6-4				
	EMS	EN 61000-4-2 ESD Level 3 EN 61000-4-3 RS Level 3 EN 61000-4-4 EFT Level 3 EN 61000-4-6 S Level 3 EN 61000-4-6 CS Level 3 EN 61000-4-8 EN 61000-4-8				
	Environmental Tests	IEC 60068-2-27 Shock IEC 60068-2-32 Freefall IEC 60068-2-60 Vibration				
Warranty	Warranty	Limited lifetime warranty2				
	Part Number		Description			
Order	DIS-100G-5W	5 x 10/100/1000 Mbps ports switch with -40 to 75 °C operating range				
Information	DIS-100G-5SW	4 x 10/100/1000 Mbps ports $+$ 1 x SFP port switch with -40 to 75 °C operating range				
	DIS-100G-5PSW	$4 ext{ x 10/100/1000 Mbps PoE ports } + 1 ext{ x SFP port switch with -40 to 75 °C operating range}$				
Optional SFP	DIS-S310LX	1000BASE-LX, single-mode, 10 km, -40 to 85 °C operating temperature				
Transceivers	DIS-S301SX	1000BASE-SX, multi-mode, 550 m, -40 to 85 °C operating temperature				
Optional	DPE-SP110	Outdoor PoE Ethernet Surge Protector				
Accessories	DPE-SP110I	Ethernet Surge Protector				

-

1 The actual available PoE budget depends on the power supply connected to the switch. 2 Limited lifetime warranty is available in the USA only. The warranty is void when not purchased from an authorized US D-Link reseller. Please visit us.dlink.com for a list of authorized US resellers.

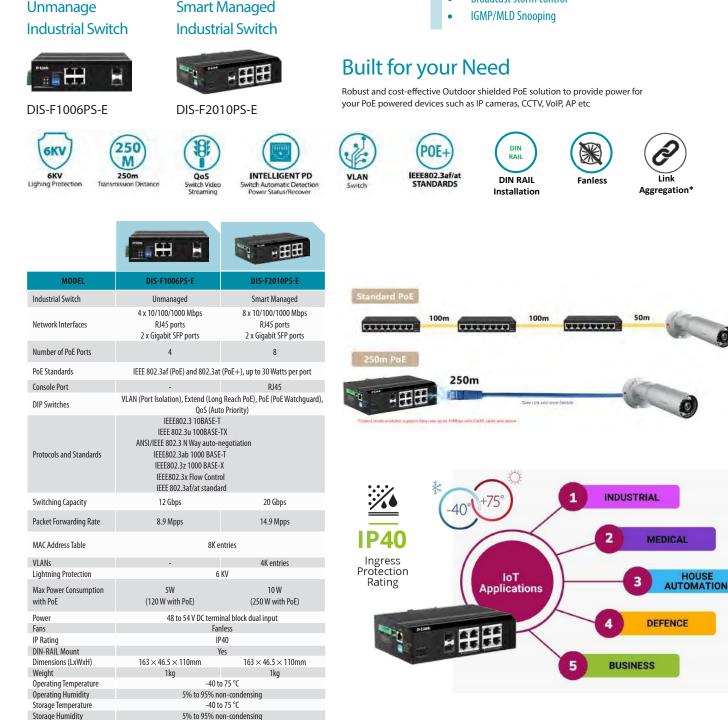
250M Long Range **PoE Industrial Switch**

Aside from Unmanaged 250M PoE switches, D-Link also offers 250M Smart PoE switches that allow users to utilize smart L2 features like STP/RSTP/MSTP, configuring voice VLAN, IP-MAC-Port binding & etc. these model also comes with high power budget to suit each home/SOHO and SMB need.

The 250M Smart PoE switches comes with 2 different GE port configuration, 8 & 24 PoE ports which provide the best costeffective 250M PoE switch with Smart Features.

Key Series Features

- 250 m Long Range PoE •
- Supports 802.3af/at
- **6KV Lightning Protection** •
- Intelligent PD Automatic Detection power status / • Recover
- Fan-less Design •
- Smart Managed Industrial(DIS-F2010PS-E) •
- IEEE 802.1Q and port based VLAN •
- IEEE 802.1p Quality of Service (QoS)
- STP/RSTP/MSTP •
- Port mirroring •
- Link aggregation •
- Bandwidth control
- Broadcast storm control •
- **IGMP/MLD Snooping**





250M Long Range PoE Switch

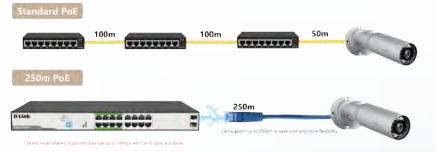
D-Link offer wide variety of PoE switches ranging from standard to Long range PoE and PoE with high power budget to suit each home/SOHO and SMB need.

Long Range PoE provide a breakthrough in technology to supply PoE power up to 250m which provide the best cost-effective powered solution



Up to 250m PoE and Data Transmission

Equipped with PoE extend technology, these PoE Switches have the capability to supply 802.3af/at PoE up to 250m with data transmission. Cost saving for long distance solution.



Key Series Features

- 250 m Long Range PoE
- Supports 802.3af/at
- 6KV Lightning Protection
- Quality of Service (QoS) on Video Streaming
- Intelligent PD Automatic detection power status / Recover
- Supports VLAN

Built for your Need

Robust and cost-effective PoE solution to provide power for your PoE powered devices such as IP cameras, CCTV, VoIP, AP etc



6KV Surge Protection

D-Link 250M is enhanced with 6KV surge protection Effectively guard equipment from lighting damage especially if use on AP/IP camera install outdoor or at higher position



Enhanced with VLAN Function

With a flick of button, Isolate the downlink port to each other can effectively suppress network storms and improve network performance



Enhanced with Video QoS

Improve the Video Packet Priority and create high priority for video streaming, perfect solution for IP camera/CCTV



AP Router

D-Link

DGS-F1018P-E

LiveView Monitoring



Storage Temperature

Storage Humidity

250M Long Range PoE Smart Switch

Aside from Unmanaged 250M PoE switches, D-Link also offers 250M Smart PoE switches that allow users to utilize smart L2 features like STP/RSTP/MSTP, configuring voice VLAN, IP-MAC-Port binding & etc. these model also comes with high power budget to suit each home/SOHO and SMB need.

The 250M Smart PoE switches comes with 2 different GE port configuration, 8 & 24 PoE ports which provide the best cost-effective 250M PoE switch with Smart Features.

IGMP/MLD Snooping • **IP-MAC-Port Binding** DGS-F1100-10PS-E -----DGS-F1210-10PS-E -----**Built for your Need** DGS-F1210-18PS-E DGS-F1210-26PS-E Robust and cost-effective Outdoor shielded PoE solution to provide power for your PoE powered devices such as IP cameras, CCTV, VoIP, AP etc DGS-F1210-26MPS-E 250 DIN POE RAIL M IEEE802.3af/at 6KV 250m QoS INTELLIGENT PD VLAN Link DIN RAIL Fanless Lighing Protec nission Distanc itch Video atic De Installation Aggregation* --------MODEL NUMBER DGS-F1100-10PS-E DGS-F1210-10PS-E DGS-F1210-18PS-E DGS-F1210-26PS-E DGS-F1210-26MPS-E 8 x 10/100/1000 Mbps 8 x 10/100/1000 Mbps 16 x 10/100/1000 Mbps 24 x 10/100/1000 Mbps 24 x 10/100/1000 Mbps Network Interfaces PoE RJ45 ports PoE RJ45 ports PoE RJ45 ports RJ45 ports RJ45 ports 2 x Gigabit SFP ports Number of PoE Ports 24 8 8 16 24 PoE Standards IEEE 802.3af (PoE) and 802.3at (PoE+), up to 30 Watts per port Console Port RJ45 **DIP** Switches VLAN (Port Isolation), Extend (Long Reach PoE), PoE (PoE Watchguard), QoS (Auto Priority) IEEE802.3 10BASE-T IEEE 802.3u 100BASE-TX ANSI/IEEE 802.3 NWay auto-negotiation Protocols and Standards IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-X IEEE802.3x Flow Control IEEE 802.3af/at standard Switching Capacity 20 Gbps 20 Gbps 36 Gbps 52 Gbps 52 Gbps 14.9 Mpps 23.8 Mpps 38.7 Mpps Packet Forwarding Rate 14.9 Mpps 38.7 Mpps MAC Address Table 8K entries VLANs 4K entries 6 KV Lightning Protection 18 W 7.4 W 15 W 18 W 8 W Max Power Consumption with PoE (100 W with PoE)w (150 W with PoE) (150 W with PoE) (250 W with PoE) (400 W with PoE) Power External Power adapter Built-in PSU, 100-240VAC, 50-60Hz Fans Fanless 3 1 Acoustics 35 dB(A) 35 dB(A) 35 dB(A) 45 dB(A) Dimensions (LxWxH) 225 x 120 x 35 mm 440 x 293 x 44mm 285 × 180 x 44mm 440 x 180 x 44mm 440 x 180 x 44mm 2.9 ka 5.0 ka Weight 1.15 kg 3.0 ka **Operating Temperature** 0 to 40 °C Operating Humidity 10% to 90% non-condensing

-20 to 70 °C

10% to 95% non-condensing

Key Series Features

- 250 m Long Range PoE
- Supports 802.3af/at
- 6KV Lightning Protection
- Intelligent PD Automatic detection power status / Recover
- Built-in SNMP MIB
- IEEE 802.1Q and port based VLAN
- IEEE 802.1p Quality of Service (QoS)
- STP/RSTP/MSTP
- Port mirroring
- Link aggregation
- Bandwidth control
- Broadcast storm control

				Date:
MODEL	DES-F1006P-E	DES-F1010P-E	DSS-100E-18P	DES-F1025P-E
Description	250m 6-Ports Fast Ethernet with 4 PoE Ports and 2 Uplink Ports	250m 10-Ports Fast Ethernet with 8 PoE Ports and 2 Uplink Ports	250m 16-Ports Fast Ethernet with 16 PoE Ports and 1 Gigabit Combo Uplink Port	250m 24-Ports Fast Ethernet with 24 PoE Ports and 1 Gigabit Combo Uplink Ports
Ethernet Speed	Fast Ethernet	Fast Ethernet	Fast Ethernet	Fast Ethernet
Downlink	4	8	16	24
Uplink	2	2	1 Combo Gigabit (Ethernet/SFP)	1 Combo Gigabit (Ethernet/SFP)
Housing	Metal	Metal	Metal	Metal
IEEE 802.3af (15.4W)	0	٥	0	٥
IEEE 802.3at (30W)	0	۵	0	۵
PoE Budget	60W	96W	230W	250W
Port support PoE powered up to 250m	1-4	1-8	9-16	1-8
VLAN Isolation	0	D	0	0
QoS (Video)	0	D	-	0
PoE PD recovery	0	D	-	0
Rackmountable	-	-	0	۵
Lighting Protecting	6KV	6KV	6KV	6KV

MODEL	DGS-F1006P-E	DGS-F1010P-E	DGS-F1018P-E	DGS-F1026P-E
Description	250m 6-Ports Gigabit with 4 PoE Ports and 2 Uplink Ports	250m 10-Ports Gigabit with 8 PoE Ports and 2 Uplink Ports	250m 16-Ports Gigabit with 16 PoE Ports and 2 SFP Uplink Ports	250m 24-Ports Gigabit with 24 PoE Ports and 2 SFP Uplink Ports
Ethernet Speed	Gigabit	Gigabit	Gigabit	Gigabit
Downlink	4	8	16	24
Uplink	2	2	2 SFP	2 SFP
Housing	Metal	Metal	Metal	Metal
IEEE 802.3af (15.4W)	0	0	0	0
IEEE 802.3at (30W)	0	0	0	۵
PoE Budget	60W	96W	150W	250W
Port support PoE powered up to 250m	1-4	1-8	1-8	1-8
VLAN Isolation	D	D	D	D
QoS (Video)	0	0	0	D
PoE PD recovery	0	0	0	0
Rackmountable	-	-	0	
Lighting Protecting	6KV	6KV	6KV	6KV

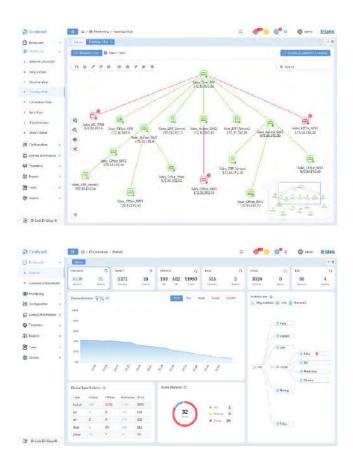
D-View 8 Network Management Software

Flexible and versatile, D-View 8 uses advanced web technology to provide a comprehensive standards-based management tool designed to centrally manage, monitor and maintain critical networks.

DV-800

D-View 8 is a comprehensive wired and wireless network management tool based on the server and probe architecture, supporting the troubleshooting, configuration, performance and security of your network. It provides end-to-end business management of IT, scalability of system architecture, and accommodation of new technology and infrastructure while supporting the management of D-Link and third-party devices.

D-View 8's standard, enterprise and telecom license options handle any network requirements, from SMBs to telecom deployments. The standard licence can manage up to 500 nodes for a single organization on multiple sites. Enterprise license handles up to 5000 nodes and supports multiple server probes, local or remote, across multiple sites and networks. Finally, the telecom license can manage more than 5000 nodes and support both local and remote server probes across multiple organizations or sites.





D-View 8 Features



Real-Time Network Analytics

Real-time network analysis provides insight into network operations, where network visibility is extremely important. With D-View 8 you can gain insight on device statistics, critical alarms of managed devices, running status of wired and wireless devices, CPU/memory utilization, wired and wireless throughput of devices.



sFlow Analyser

D-View 8 uses sFlow analyzer to detect network anomalies in your organization, especially when the network is large and complex. It helps collect the sFlow data from devices and generate related statistics reports.



Role-Based Administration

Provides administrators with both the tools and the ability to grant access and privileges to only those features and resources operators need.



Intuitive Dashboard

The user-friendly dashboard can be customized to your needs for network device overview, device statistics, alarm statistics, cpu/memory utilization, response time, temperature and many more.



Centralized Reporting

Provides performance of administrator, operator performance, and options for resource reporting Configuration and configuration changes, network device and connection status, for network properties, Alarms, and the health of network equipment. Report types are issued in real time and personalized easily. Device data is given for status, mark, IP address, MAC address, type of device, model, supplier, the location and many more.



Highly Flexible and Scalable Deployment

Depending on your network size, D-View 8 has you covered with a whole suite of network capabilities and deployment options.



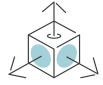
Rich Resource Management

Provides the exploration and topology of the network, including comprehensive network inventory and precise representations of how it is configured. Sponsored views include both Layer 2 and Layer 3, as well as Like VLAN topology and the ability, like a dashboard homepage, to create custom views.



Inventory Management

Provides holistic management using a single pane of glass for multi-vendor devices. Administrators can access tools to control and monitor several facets of a network topology, IP, or custom view, the system connects devices to the network and displays devices. Administrators may also assess a system's health through the specifics of the device page, which reveals real-time data, summary information, connectivity testing, and more.



Batch Configuration

Configure multiple devices at the same time using SNMP or telnet.



Firmware Management

Conveniently upgrade firmware for multiple devices from a centralized location.



Service Monitoring

Monitors the availability and responsiveness of common network services via probes that you configure. The probes reside on local and remote D-View 8 software agents and test services from servers and devices that you select when configuring the probes.



Remote Management via App

Conveniently access D-View 8 remotely via the app when you're away from the office.

Technical Specifications			DV-800
License Types	Standard (DV-8005)	Enterprise (DV-800E)	
Nodes Supported	< 500	< 5000	
Server and Probe	 Single server, no support for redundancy Single probe 	 Supports 2 servers and HA (High Availability) Multiple probes 	
Org-Site-Network Architecture	 Single organization Multiple sites Multiple networks 	Single organizationMultiple sitesMultiple networks	
Features Supported	Limited features	All features	
D-View Server System Requirements			
CPU	Quad-core, 3.5 GHz or above		
RAM	16 GB or above		
Disk	200 GB or above		
Supported OS (English versions only	 Windows Server 2012 64-bit (Standard Edition Windows Server 2012 R2 64-bit (Standard Edition Windows Server 2016 64-bit (Standard Edition Windows Server 2019 64-bit (Standard Edition Windows 10 64-bit (Professional Edition or a Ubuntu 14 64-bit or above Debian 10 64-bit or above 	ition or above with the latest patches) on or above with the latest patches) on or above with the latest patches)	
Database	MongoDB 3.6 or above		
Web Browser	 Microsoft Edge Firefox Chrome Safari 		
Remote Probe System Requirements			
CPU	Dual-core, 3.0 GHz or above		
RAM	4 GB or above		
Disk	200 GB or above		
Supported OS (English versions only	 Windows Server 2012 64-bit (Standard Editic Windows Server 2012 R2 64-bit (Standard Editic Windows Server 2016 64-bit (Standard Editic Windows Server 2019 64-bit (Standard Editic Windows 10 32/ 64-bit (Professional Edition Ubuntu 14 64-bit or above Debian 10 64-bit or above 	ition or above with the latest patches) on or above with the latest patches) on or above with the latest patches)	
Managed Capability	500 Nodes		
Client System Requirements			
CPU	Dual-core, 3.0 GHz or above		
RAM	4 GB or above		
Disk	100 GB or above		
Web Browser	 Microsoft Edge Firefox Chrome Safari 		

D-View 8 Features	DV-800
System Configuration	
Basic Setings	 Organization Configures the organization's name, country, time zone, etc Upload the organization logo in PNG or JPG file format (less than 2MB file size) Mail Server: Configures mail server information and associated parameters Forward Trap: Configures the trap receiver to receive incoming device trap messages Forward Syslog: Configures the system log receiver to receive incoming device syslog messages to the D-View server REST API Key Generation: To generate the API key which will be used by other application to acquire a token from D-View 8 Third party applications can use tokens to acquire needed information from D-View 8 without sending username and password SNMP Protocol Preference: Configures the SNMP protocol types, community name and related parameters sFlow Settings: Configures sFlow collector's associated information System Preferences: Configures the table display parameter and theme of D-View 8
User Management	 Users: Listing user information which contains user's email address, user name, login time, authentication type etc. Add, delete, remove users. Role Privileges: Listing the types of user role which includes Organization/ Site/ Network Administrator roles. Listing each role's associated function privilege. AD Server: Configures the Windows Active Directory Server's information. RADIUS Server: Configures the RDIUS Server's information. Supports Primary and Secondary RADIUS Server configuration
Scheduling	 Configures the "Recurrent Schedule" and "Time Range Schedule" Recurrent Schedule: Allows user to configure recurrent schedules with customized frequency and duration Time Range Schedule: Allows user to configure a specific range of time, such as work hours or holidays
Server Management	 To monitor the status of D-View Core Server, Web Server and Probe To check the real-time report of each server's status, which includes the utilization of CPU memory, hard drive and the network traffic
D-View 8 Logs	 D-View 8 features three types of logs: User Operation Log, System Log, Device Maintenance Log User Operation Log: Keeps the records of user's sign in and sign out status System Log: Keeps the records of D-View 8's running status for server and probes Device Maintenance Log: Keeps users' configuration action log for devices
About Page	 The About page keeps the following information: D-View 8's edition, such as Standard, Enterprise or Telecom Brief description for the purchased edition Software version The latest update date The number of supported and used nodes System uptime information

D-View 8 Features	DV-800
Dashboard	
Analysis	 By default, there are six tabs in the analysis page, user can click each tag to display dedicate information. The Analysis page includes following tabs: Overview Switch Wireless Host sFlow PoE Provides an overview of alarm statistics, on/off-line status, CPU/memory utilization, performance status, traffic statistics, and other information Different categories may have slight variations in the information provided
Customized Dashboard	• Allows user to configure the dashboard to display the information they need and apply it to the homepage
Monitoring	
Network Discovery	 Allows user to configure the network discovery parameters, which include: Basic Information: the name of the network and site to discover. The discovered devices mange rule Probe Mode: to choose the primary and secondary probe Discovery Range: the range includes single IPv4/v6 Address, an IPv4/v6 Address range, an IPv4/v6 subnet or importing the range from a file Schedule: to define the discovery schedule which includes one-time discovery or recurrent discovery Displays all discovery rules' running status and associated detail information
Device View	 Includes 5 categories: All, Managed, Unmanaged, Ignore and Conflicted Displays several device types: Switch, Wireless, Host and Other Displays the summary and detailed information of each device User can click "System Name" to check each device's detailed information • User can click "IP" to select a protocol to log in to the device
Interface View	 Listing devices' connection relationship, which includes: • System/Model Name Device's IP address Interface and MAC address information VLAN information Uptime information D-View's organization information Each item in the table provides search capability MAC Locator: user can look up for specific MAC address by using the search function in the "Connected MAC" column.
Topology Map	 Displays connections between devices Displays the on/off-line status of devices Displays the link status of devices PNG or JPG format files can be uploaded as the topology's background image • Supports Star, Tree, Circular and Grid type topology maps Zoom in and out the topology map Users can to create customized topologies
Connection View	 Listing the interface link information which includes: • Link status Link name Name and IP address of two devices The connected interface of each device The connected devices and interface information • Traffic statistics of TX and RX Link utilization Link type (LACP or general) Link's related info update time Source of the detection, such as LLDP or FDB Clicking the link interface name's hyper link, more detailed information will be displayed, such as: • Summary information of the selected link Monitor information of the selected link
Rack View	Provides users visualization of the actual device rack
sFlow Analyzer	 Collects the sFlow data from devices and generates related statistics reports • The statistics report information includes: Report based on the source or destination of packets • Report based on QoS rules Report based on layer 4 applications Report based on two nodes' conversation
Device Group	 Allows users to create device groups Device grouping to simplify the firmware or configuration file maintenance

D-View 8 Features	DV-800
Configuration	
Batch Configuration	 Allows customer to simultaneously configure multiple devices' parameters Two sub-features: Quick Configuration: provides a GUI template for each function to apply the settings to multiple devices Advanced Configuration: allows user creating a profile for a specific type of device and the profile contains multiple features' parameters. User can apply the profile to multiple devices which have the same type/model as the profile.
Task Management	 Lists all user created tasks to understand the execution result This feature includes: Current Tasks: lists the descriptions of current tasks Historical Tasks: lists the descriptions of historical tasks Each task result will include a message to describe the success status. If a failure happens, it will also describe the reason of failure.
Firmware Management	 Allows users to manage device's firmware via D-View 8 Uploading or downloading the firmware to or from the device Upgrading device by specifying schedule If firmware image already exists in D-View 8, user can just select the file without uploading a new one again Displays the failure message to understand the root cause
Configuration Management	 Allows users to manage device configuration via D-View 8 Users can backup or restore multiple device configuration files at the same time Users can backup or restore the file by specifying a schedule Supports baselined configuration file comparison, auto restore and generate alarm feature
File Management	 Allows users to compare configuration files to verify the differences between the two files Allows users to upload or delete configuration or firmware files on D-View Allows users to set the configuration file as the baselined file
Alarms & Notifications	
Alarms	 Displays all alarm information collected from network devices. The alarms include: Active Alarms Lists all unresolved or unacknowledged network alarms Historical Alarms Lists all resolved or acknowledged network alarms
Trap & Syslog	 Displays the trap and system log receiving from devices or the system. The trap log's information contains: Time received Device system name Device IP address SNMP version Trap description Original message of the trap The associated alarm of the trap (Users can select optional columns to display) The site and network which the related device belongs to (Users can select optional columns to display) The syslog information contains: Time received System name of device generating the syslog Device IP address Syslog severity levels Syslog messages The associated alarm of the syslog (Users can select optional columns to display)
Trap Editor	Allows customer to edit a readable trap message for a specific trap OID
Monitor & Alarm Settings	 Monitor Settings Configure the monitor status to let D-View collect data according to the established time intervals Alarm Settings Configure alarm rules to let D-View generate alarms when collected data matches user configured thresholds Configure the CLI to let devices and D-View servers execute when the alarms are triggered Alarmable Items Definition Define the items for customized monitors and set thresholds to trigger alarms
Notification Center	 Allows user to set the notification method when alarms are triggered. The methods include: Web Scrolling Message, Email, App Push Notification and Execute script.

D-View 8 Features	DV-800
Template	
Device Template	 This feature allows user to easily add a device to be managed by D-View 8 if it's not in the default managed list; a useful tool especially for managing third party devices Allows user to customize device's information by providing: • Model Name Device Type Vendor Name Device's System OID (SOID) Panel Template Allow users to expand D-View's monitoring and configuration capabilities for device models. Provide a way to associate the existed monitor and configuration templates
Device Management	 Allows user to create useful information to manage third party vendor and devices, which includes: Vendor information Vendor name Vendor OID Device Category Category name Photo of the category. The file type can be PNG or JPG format (less than 2 MB in size) Device Type Type name Device category (data comes from Device Category) Description
Panel Template	 Includes D-Link default device panel templates For third party devices, user can create customized panels • Customizable panel details: Panel name Stacking support status Description Customizable Panel diagrams: Panel logo (PNG/JPG files less than 2 MB in size) • Panel height and width Port numbering rule Port layout design using drag and drop
Monitor Template	 Provides different monitoring templates for collection of device information Customizable Monitor Category for classification of monitored data: Category name Unit of the monitored value Data collection protocol (SMMP/ HTTP / HTTPS) Status switch to define whether collected data need to be merged in different time intervals Category description Monitored data source Customizable Monitor Template to monitor and collect defined objects Template name Monitor category chosen Device vendor name Monitor interval Monitor interval Monitor template description Object's monitored OID information Script file to process collected data
Configuration Template	 Provides multiple configuration templates to configure specific devices via D-View 8 Multiple config templates can be assigned to Device Template to configure a specific device. Customizable Configuration Category templates classified by function Category name Configuration type Template description Customizable Configuration Template to configure specific devices via D-View 8 Configuration Template to configure specific devices via D-View 8 Configuration Template to configure specific devices via D-View 8 Configuration template name Vendor name Template description Selected configuration template to configure device Method of configuration (CLI or SNMP) CLI commands list (if selected) Programable GUI object to simplify continuous operation

D-View 8 Features		DV-800
Report		
General Report Types	 Each report type can have configurable parameters such as data range and data collection time interval. When reports are generated, they can be exported immediately, saved to My Report, or upgraded to Scheduled Report according to the configured report parameters. Device Reports Device Health Trap Syslog Device Top N Wired Interface Reports Wired Interface Reports Wired Interface Reports Wired Interface Reports Wired Interface Reports Wireless Reports Wireless Client Count Wireless Traffic Advanced Reports Inventory 	
Scheduled Report Types	 Each report type can be a one-time report or recurrent report. User can designate data source device(s) and levels of alarms to be displayed in the reports. Alarm Report Trap Report Syslog Report 	
Tools		
MIB Browser	 Retrieves and displays MIB data in readable format Provides a graphical format to read MIB information 	
MIB Compiler	Compiles device MIB files into D-View 8	
ICMP Ping	Checks device operation status and network performance	
SNMP Test	Checks device SNMP capabilities using SNMPv1, SNMPv2c or SNMPv3	
Trace Route	Checks the route and measures transit delay of packets crossing the network	
Command Line Interface (CLI)	Terminal interface for user to connect with device	
File Comparison	 Lets user compare differences between two configuration files Differences are highlighted in different colors to identify modification types 	
Wizard Types	 D-View 7 Upgrade Wizard A guide for upgrade from D-View 7 to D-View 8 Discovery Wizard Discovers the network and add devices to be monitored Monitoring Wizard A guide to generate the topology, dashboard and rack views Alarm Wizard A guide to configure the alarm and notification features 	
Order Information		DV-800
DV-800S-LIC	D-View 8 Standard License	

DV-800S-LIC	D-View 8 Standard License
DV-800E-LIC	D-View 8 Enterprise License
DV-800-SE-LIC	Upgrade License from Standard to Enterprise Edition



2023

4G / 5G M2M VPN SOLUTION GUIDE

IoT | Industrial 4.0 | Security

Unlock Business Capabilities. Anytime. Anyway Next-Gen Connectivity for Next-Gen Business

Your Link to Business Success

5G/4G LTE M2M Solutions

5G/4G LTE M2M Solutions include the following two (2) components:

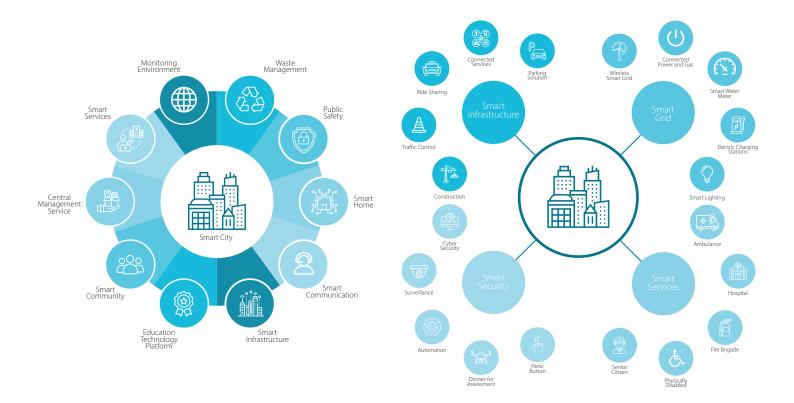
- High-speed Mobile VPN
 Industrial Routers and
- Device Management platform, D-ECS (D-Link Edge Cloud Solution)

D-Link M2M VPN industrial routers use the high-speed mobile 5G/4G mobile networks to establish bi-direction secure and redundant data transmission paths between the business control centers and the remote IoT (Industrial of Things) devices. D-Link D-DEC is an easy-to-use tool for the MIS to effectively manage remote D-Link M2M routers.

Designed for remote machine-to-machine and secure VPN deployments, D-Link 5G/4G LTE M2M VPN routers unlock the business capabilities anytime, anywhere with high-performance 5G/4G/3G connectivity easily.

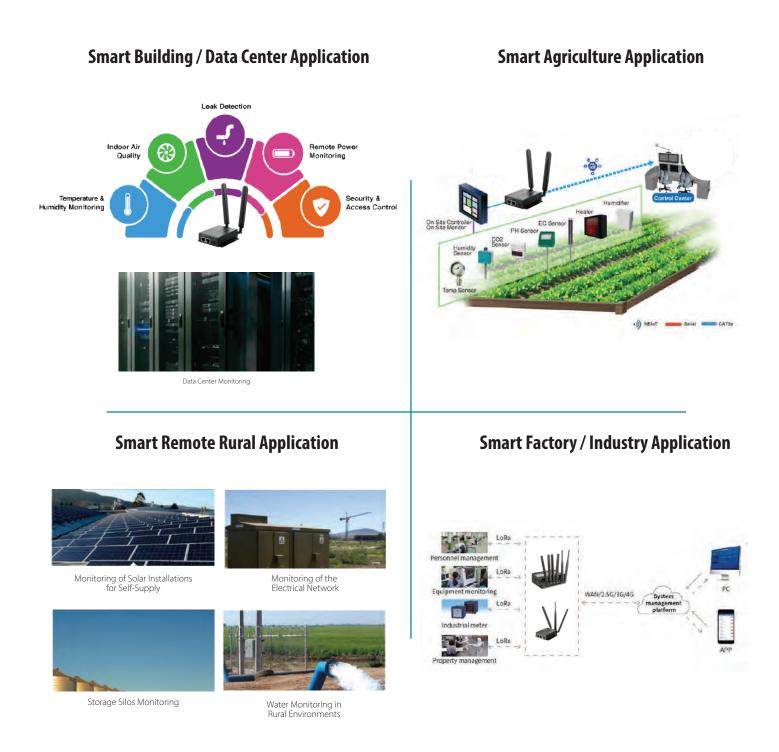
With the adoption of both Artificial intelligence (AI) and machine learning (ML), businesses are able to make good decisions with vast amount of data including video, sound, measurements, etc collected from a network of industrial sensors.

Smart City M2M Application



IoT Application

The application of Internet of Things [IoT] for enabling a city to be "smart" has solutions to a lot of the problems that we face today. Upliftment of the people is the primary objective of all social activities. Enabling a city to be smart, in all aspects, accelerates the process of making its citizens smart. It helps in empowering them to contribute to and solve the problems that they face in their life. Some of the fields where we can implement the industrial mobile solution to make your solution smart



D-Link

Key Benefits 5G/4G LTE M2M Solutions



Multi-SIIM Design

Zero downtime with multi-SIM failover design



GPS Tracking

Centrel location tracking management



Secure VPN Connection

Integrated VPN Client and Server support for secure connectivity



WiFi Connectivity WiFi connection for multiple wireless clients Industrial Grade

Design

Zinc-plated steel casing for extra protection



Outdoor WAN Connectivity

Providing Internet connection for outdor development



Remote Management

Network management platform for massive IoT implementation



High Reliability of Network

Stable WAN access with WAN backup using M2M mobile routers

M2M Solves Your Internet Connectivity Problems

Unstable Internet Connection

Cloud-based applications require businesses to maintain reliable WAN connections. Install D-Link M2M dual-SIM routers together with firewall, businesses can use cost-effective mobile network as (a) WAN Backup to increase the redundancy for mission critical applications and (b) load balance to enhance of data transmission efficiency over multiple WAN connections.

D-Link

In-accessible to Fixed Broadband

Without accessing to fiber/Cable/ADSL WAN at remote locations and in the public transportation, high-speed vmobile network with well-coverage is the best WAN infrastructure. D-Link M2M dual-SIM routers, supporting multiple frequency bands of 5G/4G (Cat 4/6) /3G, are able to work with any mobile operators.

Costly Fixed Broadband Charges

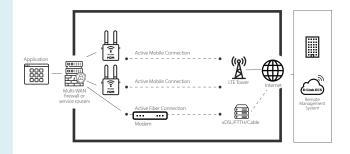
Remote IoT devices consume low-medium WAN bandwidth. Installation and monthly flat-rate subscription of fixed broadband for a network of IoT devices is expensive. D-Link M2M VPN routers connect IoT devices with low-cost, usage-based and INSTANT-ON mobile network. Built-in VPN client and server establish secure WAN transmission paths for data protection.

Applications of M2M VPN Routers for Businesses

Scenario 1

WAN Backup & Load Balance over Fiber and Mobile Connectivity

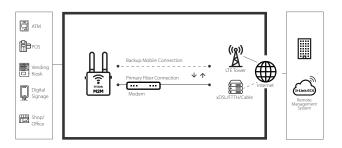
To provide uninterruptible WAN connectivity, connect firewall/service router to D-Link M2M VPN routers and establish load-balance multi-WAN broadband infrastructure with auto-failover redundancy. Comparing with using 2nd fiber as WAN Backup link, D-Link M2M routers with mobile network can cut down the monthly broadband cost drastically when setting up WAN redundancy for general office networks.



Scenario 2

Automatic Fiber-to-Mobile Failover

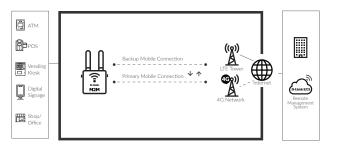
With D-Link M2M VPN router, failure of primary fiber broadband connection will automatically trigger the failover to backup mobile broadband network. For the mission critical businesses such as banking ATM, D-Link M2M VPN router adds extra redundancy with built-in dual SIM support.



Scenario 3

Automatic Fiber-to-Mobile Failover

With D-Link M2M VPN router, failure of primary mobile broadband (SIM 01) will automatically trigger the failover to secondary backup mobile broadband network (SIM 02). This is the most cost effective, reliable and secure WAN connection to bring back the valuable and sensitive data from the remote IoT devices.



DWM-3010

The D-Link DWM-3010 is a 5G M2M IoT gateway that delivers exceptional 5G broadband connectivity, facilitating IoT device-dense environments to operate with ultra-low latency, Gigabit-plus speeds and high reliability to support mobile operators with a competitive solution against traditional fixed line broadband services.











vertising Manufacturing and poards Production Lines

d Renewable and Non-Renewable Energy



D-Link ECS

The Landscape of 5G



10x Decrease in Latency: Delivering latency as low as 1 ms.



Spectrum Efficiency: Achieving even more bits pe Hz with advanced antenna techniques.



10X Connection Density: Enabling more efficient signaling for IoT connectivity





Traffic Capacity: Driving network hyper-densification with more small cells everywhere



10x Experience Throughput: Bringing more uniform, multi-Gbps peak rates



DODX Network Efficiency: Optimizing network energy consumption with more efficient processing



Get Started with M2M Today

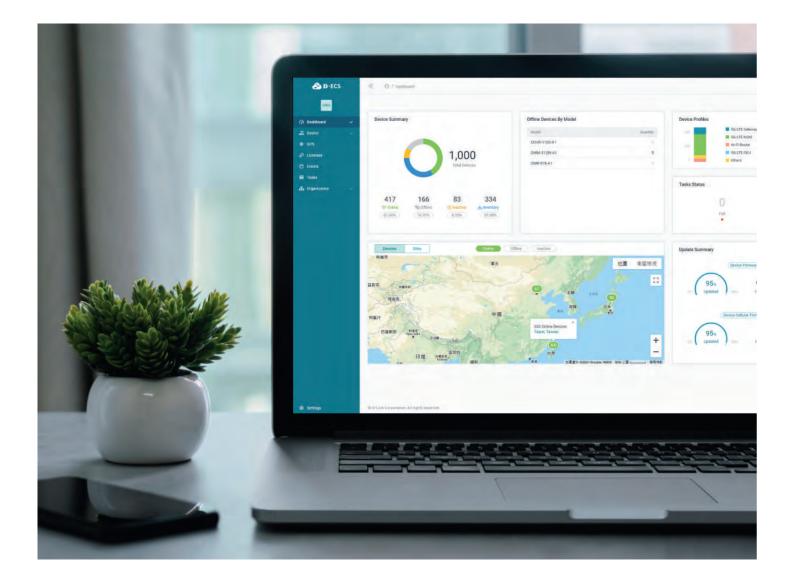
	DWM-311 4G LE M2M VPN Modem	DWM-312 4G.ITE M2M VPN Router	DWM-312W 4G LTE M2M VPN WiFi Router	DWM-313 4G LTE M2M VPN WiFi Router	DWM-315 4G LTE Cat 6 M2M VP Router	DWM-321 4G LTE In-Vehicle WiFi Hotspot	DWR-926 4G LTE Cat. 6 12M VPN WiFi Router	DWR-3010 5G NR M2M VPN WiFi Gateway
SIM Slots	One	Two	Two	Two	Two	Four with Two (2) LTE built-in modems (HW: D1) Two (HW : A1)	Two	Two
Connectivity	1 x Gigabit Ethernet LAN port	1 x 10/100Mbps Ethernet LAN port	1 x 10/100Mbps Ethernet LAN port	1 x 10/100Mbps Ethernet LAN port	1 x Gigabit Ethernet LAN port	2 x Gigabit Ethernet LAN port	3 x Gigabit LAN ports	3 x Gigabit LAN ports
			1 x 10/100Mpbs Ethernet WAN/LAN port (Configurable)	1 x 10/100Mbps Ethernet WAN/LAN port (Configurable)	1 x Gigabit Ethernet WAN/LAN port (Configurable)	1 x Gigabit Ethernet WAN/LAN ports (Configurable)	1 x Gigabit Ethernet WAN/LAN port (Configurable)	1 x Gigabit Ethernet WAN/LAN port (Configurable)
4G LTE Speed	LTE Cat.4 Downlink 150Mbps	LTE Cat.4 Downlink 150Mbps	LTE Cat.4 Downlink 150Mbps	LTE Cat.4 Downlink 150Mbps	LTE Cat. 6 Downlink 300 Mbps	LTE Cat. 4 Downlink 150 Mbps	LTE Cat. 6 Downlink 300 Mbps	5G Speeds upto 1Gbps*
Antennas	2 x detachable 3G/4G antennas	2 x detachable 3G/4G antennas	2 x detachable 3G/4G antennas;	2 x detachable 3G/4G antennas;	2 x detachable 3G/4G antennas	4 x 3G/4G detachable antennas (HW: D1)	2 x detachable 3G/4G antennas	4 x 5G NR/LTE detachable antennas
			1 x detachable Wi-Fi antenna	1 x detachable Wi-Fi antenna	1 x GPS SMA (antenna connector)	2 x 3G/4G detachable antennas (HW: A1)	2 x detachable WiFi antennas	2 x detachable WiFi antennas
GPS (Global Navigation Satellite System GNSS)	N.A.	N.A.	N.A.	N.A.	Yes	Yes	Yes	Yes
VPN Features	OpenVPN	L2TP/PPTP/ IPSEC/GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/ GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/ GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/ GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/ GRE VPN	L2TP/OpenVPN/ PPTP/IPSEC/ GRE VPN

* DWM-312W is not managed by D-Link Edge Cloud Solution (DECS) 5G speed varies

D-Link Edge Cloud Solution, D-ECS

Welcome to the solution guide for D-Link Edge Cloud Solution, the complete cloudmanaged cellular LTE/5G NR and wireless mesh networking solution for small-to-mediumsized businesses (SMB). D-ECS is designed to help SMBs make the transition from unmanaged consumer- grade equipment to a managed professional- grade solution as easy, effortless, and worry-free as possible by eliminating the learning curve and guaranteeing reliability to ensure every device stays connected.





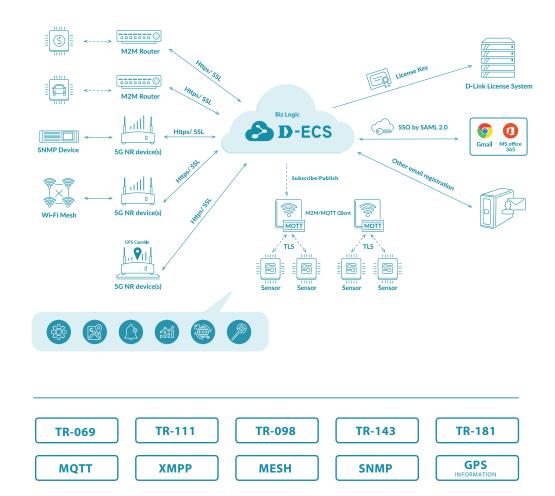
Why D-ECS?

Seamless reliable connectivity is mission- critical to themodern business model. But with cellular LTE/5G NR devices and other M2M devices dispersed across the Internet and overwhelming security threats, SMB operations are at high risk with unmanaged networking devices. Professional-grade network management ensures minimal downtime and maximizes network agility for daily operations.

D-ECS removes the technical achieve such a network through....

- · Do- it- yourself (DIY) installation and operation
- Remote management of your entire network
- Robust automation with minimal downtime

D-Link Edge Cloud Solution System Architecture



D-ECS

D-ECS is a complete managed Cellular and Wireless networking solution where network devices such as 4G- LTE, 5G NR, M2M, and Wireless Mesh are controlled through the D- ECS Management Platform, accessible via Web Portal or lite management app. Monitoring and management tasks can be carried out through the platform for any device, site, or network anywhere in the world, with multi- tenancy enabled, and device scalability unlimited.

Who Needs D-ECS?



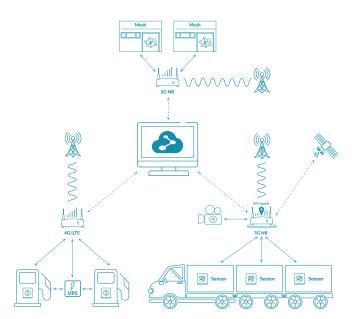
Service Providers

D-ECS delivers the technical capability, guaranteeing network reliability to ensure every device stays connected to enable applications such as the Internet of Things (IoT) and Cloud operations, without the need for new IT networking skills.



Logistics Remote Management

D-ECS helps managers to track, monitor and optimize the network to predict and mitigate problems before they occur.



Business Clients

D-ECS enables simple remote management and troubleshooting across multiple sites, easy expansion of new sites, and scheduled analytics and reporting to help you get to know your customers.

Balance for CapEx and OpEx

D-ECS offers robust Internet access capability, easy management of all network sites, fine-grained network monitoring and control to achieve the balance between CapEx and OpEx for different customers.

What D-ECS Delivers

Cellular 4G-LTE/5G NR technology is redefining versatility for wireless business applications and making on-demand network deployments possible, prompting companies to explore the possibility of deploying cellular edge networks for existing business segments to streamline operations, increase output, and ultimately improve bottom lines.

Connecting up to a million devices per square kilometer, 4G-LTE/5G NR is ideal for enterprise networks wanting high-density and low-latency connections, and D-Link's Edge Cloud System (D-ECS) has all the tools for high network agility to ensure every device stays reliably connected.



End-to-End Solution

D-ECS is a complete cellular 4G-LTE/5G NR infrastructuresolution that provides end-to- end control over every residential router, wireless device, and remote site on your Cloud-managed network, including compatible devices with a variety of capabilities and price points. It is also a business solution comprised of a variety of functionalities to achieve the inter operability and shared services for SMBs, with analytics providing an opportunity to know your customers better.

- Minimal need for in-house IT skills
- Easy network management outsourcing
- · Enhance business value and operational flexibility

Cloud Management

Managing a network from the Cloud brings tremendous advantages in terms of control and convenience. There are no technical limits to the numbers of sites and devices. No need for specialized management hardware or software. And with D-ECS Zero- Touch Deployment capabilities, there's no need to carry out repetitive configuration tasks onsite. Network administrators can access the platform and carry out their various tasks from literally anywhere with an online connection, with no need for complex dedicated software.

- Zero-Touch Deployment
- Unlimited Scalability
- Quality of service by multi-sites and group tasks management



D-ECS is a complete managed Cellular and Wireless networking solution where network devices such as 4G- LTE, 5G NR, M2M, and Wireless Mesh are controlled through the D- ECS Management Platform, accessible via Web Portal or lite management app. Monitoring and management tasks can be carried out through the platform for any device, site, or network anywhere in the world, with multi- tenancy enabled, and device scalability unlimited.

C B ×	C	DWM-311-B1_T30V10B000003
~		Cellular Interface 1
Verizon		Network Name
-06 08:49:09	2021-07-06	Report Time
LTE		Current Use
480		MNC
311		MCC
0097519612	31148009	IMSI
Band 4		Band
-104		RSRP ①
10		SINR (1)
-12		RSRQ (1)
67		Single Level
-71		RSSI
13059		TAC
89905174	8	Cell ID
D-Link		Manufacter

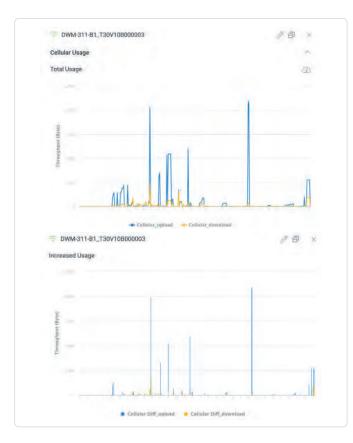


Statistics — Hourly Network Activity

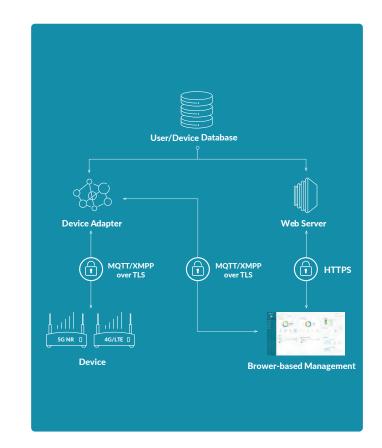
Statistics — Hourly Network Activity



Intuitive Dashboard Interface



Statistics — Hourly Network Activity



End-to-End Encryption

In-Depth Analytics & Automated Reporting

D-ECS enables an extensive understanding of your cellular network and its users scheduled timely traffic analytics and status reports, which can be automated. Insights derived from this traffic data can be used to create business value. Traffic can be viewed across the entire network, or narrowed down to a single device.

• Easy determination of trends & patterns, which can be used to guide marketing and purchasing decisions

• Spot irregularities before they become problems, and detect possible cyber threats.

Easier troubleshooting

Ease-of-Use

D-ECS has an intuitive user interface that's designed to minimize the time it takes to carry out tasks, while enabling an at-a-glance understanding of what's happening on your network. Parallel deployment for configuration, multi-tenancy, batch new firmware upgrade for certain devices and userdefined task schedules make network management easier for administrators.

- At-a-glance understanding of network status
- Less time spent on repetitive tasks
- Automated reporting
- Enhanced user experience

D-ECS for Admins

D-ECS adopts the service-oriented architecture (SOA) for multitenancy. This will enhance loose coupling everywhere in the platform itself, from supporting interoperability, increasing the quality of service, and customers diversity. There are five key tenets that overarch the board concept of D-ECS.

Key Features



Zero Touch Provisioning for rapid development



User-defined task schedules



SSO by Google/MS-0365



Manage devices using TR-181/TR098 commands remotely



Advanced traffic report and data analysis



Easy management via Tags



Role-based administration and auditable change logs



User-defined network monitoring and alert messages



RESTful API for 3rd Integration



Subscription-based license options



NAT Enhancement for Real-time communication



Geo-location using Google Maps



Support M2M and IoT real-time communication

Constitution C	Concent	은 DWM.412%. 또도 도입 Overview. 고전 호텔
 Promose P tomoses P Pents ™ Teks 42 organization 	CXV# 1100 A1_TW031_8000115 TW031_8000115 © Online CVV# 1100 A1 DVINC# FW Version C0V#-1100 A1_TW031_8000116 TW031_8000116 © Online CVV#-1100 A1 1.99 DIR685L-A1_C472F668A800 C412F568A490 © Online DIR685L-A1 1.01601_20210408_10c6469 DWM-312W-A1_ATT91118A005 ATT91118A005 ATT91118A005 DIR685L-A1 1.59	FERONCO PLAN



Platform

D-ECS is designed for cellular 4G/LTE and 5G NR technology as well as the wireless LAN and cellular M2M IOT environment that all require the different control methodologies to integrate this enormous and heterogeneous Internet world.



Best Practice

D-ECS combines practices of mashup, SaaS and cloud computing, micro-services to emphasize continuous deployment and agile practices. In other words, D-ECS enables development, lightweight container deployment, DevOps with holistic service monitoring.



Services

D-ECS aims to allow users to combine large chunks of functinality from the different protocols to form applications which are presenting a simple interface to the requester that abstracts away the underlying complexity of protocols as the black box. So users can access these independent services without any knowledge of their internal implementation.



Users

D-ECS allows for multi-tenancy authentications while enabling the specific access controls fo fine-grained permissions. This will give admins the option to arrange team members for value-added service. Also, service providers can empower complicated device management to business clients by business demand if business clients will work as the subcontractors to serve other end customers.



Process

In order to fulfill the diversity of business user scenarios for service consumers, service registry and service providers; D- ECS is working for lots of different business logic processes, classifying them, extracting the big requirements to the subtle tasks, standardizing and executing with layers of services for business processes which are ranging from activating, deployment, configuring, monitoring, altering and reporting.

(2) Development													
												Sciences Bis	IN DTA
All Gentre Management	iner Br	Street OCA FEB	n 1										Ð
O 01940	IN DENKUS	Time Aures	-	-	-	ie.	tiline		tee.	tais make	Perst	Instal Press.	
© Sinetora v @ Isekst/Ota Res	Addstrated	1818_6525	*	e 1986		1	e 190	0	ers.	in Daniel	201-40-00 threats & 2021-27-38 threats	2021-00-0012 22/05	
A Alert Rules	- taberr	104,0525	T	2 105		c	1.38		175	- Drephte	3021-06-20 WEST 54 4- 2021-07-20 10221-08	1022-08-1040-20-02	
 Stores Report Fine Envice Proble 		back_8254	x	0.00		e.	1 100	* 1	171	1 Renty	2021-05-02/20100.00 ··· 2021-07-02.0010000	2012-05-2511-01-05	4
• crs		16A.0925		8-105	0	2	e 📷		10	- Carghte	3111-09-01 12.08.00 h 2027-08-01 12.00.00	2221-05-1910-07-12	
P tomm		1418.38512		0 10		8	1 18	4 (8	es.	* Greekd	2021-05-23 million 11 2021-06-23 08:00:00	2021-03-110-04-08	
C twee		1918.2021		4 100		s.	1 20	.4	in.	of Davglate	2021-05-552828888 1/ 2021-06-15202030	Jag=450517 (00.02	
In teas		1918.0502		-		8	6 (IX		α _γ	- Complete	2021 02:10:20:00:00 18: 2021 00:30 2020/20	2021-02010/20191	8
di oprazio		1446.0074	ŧ	5 1 Hars			•	4	in.	~ complete	1017/04/02 (858/00 ++ 2021/04/00 1828/0)	10254400 T3047	10
The second s		1mA,0978	τ	2 1105	0. 1	8	£	4	95	- Complete	2022-04-01 1230230 41 202142-01 13:0030	2225-02-001:38	
		1808,0577	÷	1 105		£	1 26	4	e.	- Complete	2020-00-20-0000 m 2020-00-2020-00-0000	2221-02-19(4,09.26)	10
			-	- 814									
0 2010	Distant Company and Company and Company												mana and

Intuitive Dashboard Interface

▲ D-ECS Compatible Devices* 46 LTE Modem Router

Model	DWM-311	DWM-312W	DWM-312	DWM-313	DWM-321
Product Image				Y	
Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Dimension	77.4 x 68.5 x 26 mm	134 x 76 x 32 mm	93 x 70 x 23.6 mm	93 x 70 x 23.6 mm	160 x 125 x 47 mm
Hardwar e Version	В1	A1	A2	A1	A1(1*LTE modem); D1(2*LTE modem)
Technical Spec	 4G L TE Modem 4G/3G 1 GE LAN VPN: OpenVPN Support Device management 	 4G L TE Modem Router 4G/3G 1 FE LAN VPN: IPSec/ PPTP/L2TP/GRE +Support Device management 	 4G L TE M2M Router 4G/3G 1 GE LAN VPN: OpenVPN Support Device management 	 4G L TE M2M Router 4G/3G 1 GE LAN VPN: OpenVPN Support Device management 	 4G L TE In-V ehicle Hotspot 4G/3G 1 GE W AN/ 2 GE LAN Wi-Fi AC1200 2* DI/DO, 1*RS-232 VPN: IPSec, OpenVPN, PPTP, L2TP, GRE + Support Device management

Compatible Devices* 5G LTE Modem Router

Model	DWR-978	DWM-3010	DWP-1010
Product Image	4	A SA ANTIN	-
Environment	Indoor	Indoor	Outdoor
Dimension	234.5 x 245 x 55.2 mm	62 x 125 x 160 mm	210.4 x 144.8 x 105.4 mm
Har dwar e Version	A1	A1	A1
Technical Spec	5G/LTE Indoor CPE • Qualcomm SDX55 • 5G LT E • Sub-6G • 802.11n 4x4 + 4x4ac • 4 GE LAN	 5G NR M2M Gateway 5G NR/4G/3G 1 GE W AN/ 2 GE LAN Wi-Fi AC1200 2* DI/DO, 1*RS-232, 1*RS-485 VPN: IPSec, OpenVPN, PPTP, L2TP, GRE Support Device management 	5G/LTE ODU • Qualcomm SDX55 • IP67 • Mobile APP for site survey • Multi-giga PoE

Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries. All other trademarks belong to their respective owners. ©2021 D-Link Corporation. All rights reserved. E&OE.



2023

TOTAL SECURITY SOLUTION

For Enterprise Network

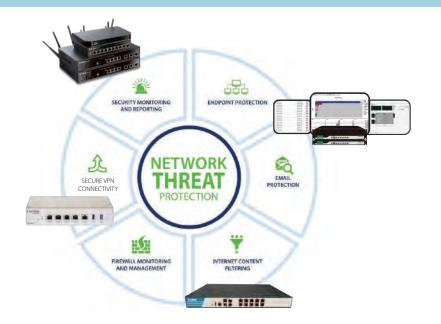
Your Link to Business Success

Security

In today's inter-connected, web-based business environment, a company's network security is key to their stability, productivity and success.

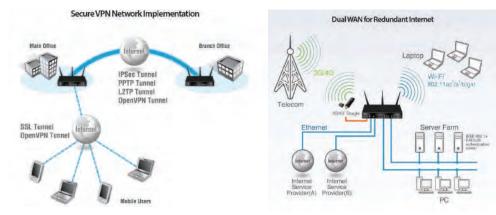
Increasingly businesses with mobile or remote workers, or that who employ social media as a tool have a greater likelihood of experiencing crippling data network security breaches. D-Link's Network Security Solutions will help you maintain a healthy network free from virus attacks, unauthorized intrusion and harmful content.

With a full array of components, including Unified Threat Management appliances, firewalls and network switches, D-Link security solutions work together to prevent network disruption from internal and external threats and are easy to install, manage and update



D-Link 360 Degree Network Security

- Flexible Deployment Security
- Secure network with VPN
- Multi-WAN failover & Load balancing
- Complete Security for SMB network
- Deep packet inspection
- Application Control
- Web Content Filtering
- Antivirus



Application Control & Web Filtering

Available Solution

External Threat Protection

- DSR Unified Service Router
- DFL Firewall
- DBG Cloud Managed VPN Business Gateway

InternalThreat Protection

Instant Check & Instant Balance By L7
 Network



D-Link

Unified Service Routers

DSR Series

Every day, businesses face potential security breaches from every direction to their network: virus attacks, file sharing, messaging abuse, spyware and many others. Remote workers can unintentionally provide hostile threats with back-door access to your business. With such a diversity of threat, gone are the days when a simple, protective firewall was enough. And managing a host of different remedies is inefficient and difficult. D-Link's Unified Services Routers offer secure, high-performance networking solutions to address the growing data-security needs of businesses. These routers are packed with advanced security and management features that are easily integrated into your existing infrastructure and which provide remote workers with secure access through the powerful VPN engine. D-Link's Unified Services Routers are, essentially, all-in-one gateway devices providing outstanding performance and rich functionalities, including IEE 802.11ac, secure wireless access, 3G/4G WAN redundancy, IPv6 and comprehensive VPN features. The DSR Series provide a signature package to enhance the security of your network by identifying intrusion patterns and blocking external threats.



Series includes the below models

DSR-250 V2

- 10/100/1000BASE-T (WAN) port x 2 10/100/1000BASE-T (WAN) port x 2 10/100/1000BASE-T (WAN) port x 2 (1 Combo WAN/LAN)
- 10/100/1000BASE-T (LAN) ports x 3 USB 2.0 port x 1 for USB storage or IEEE 802.11b/g/n/ac wireless LAN
- I A N
- USB 3.0 port x 1
- for USB storage or 3G/4G dongle

DSR-1000

DSR-1000AC

DSR-500

3G/4G dongle

- 10/100/1000BASE-T (WAN) port x 2 10/100/1000BASE-T (WAN) port x 2
- 10/100/1000BASE-T (LAN) ports x 4 10/100/1000BASE-T (LAN) ports x 4
- USB 2.0 port x 2 for USB storage or 3G/4G dongle
- IEEE 802.11b/g/n/ac wireless LAN • USB 2.0 port x 2
 - for USB storage or 3G/4G dongle
- 2dBi antennas x 3

DSR-500AC

- 10/100/1000BASE-T (LAN) ports x 4 10/100/1000BASE-T (LAN) ports x 4

- USB 2.0 port x 1
- for USB storage or 3G/4G dongle • 2dBi antennas x 2

Key Series Features

- Static/dynamic IP WAN type
- Point-to-Point over Ethernet (PPoE)
- SSL/IPSec/PPTP/L2TP VPN/ **OpenVPN**
- VPN hub and spoke
- IPSec/PPTP/L2TP VPN pass-through
- 3G/4G WAN redundancy via optional 3G USB modem
- Network Address Translation (NAT) transparent mode
- WAN traffic failover
- Outbound load balancing
- Remote management (Web, SNMP, SSH, Telnet)
- Internet Group Management Protocol (IGMP) proxy/snooping
- Stateful Packet Inspection (SPI)
- L2 to L7 access control
- IP/MAC binding
- Virtual LAN (VLAN)
- Intrusion Prevention System (IPS)
- Wireless Security (WEP, WPA, WPÁ2, WPS)
- Multiple SSIDs
- SSID-to-VLAN mapping
- IPv6





SECURITY **4**

MODEL		DSR-250 V2	DSR-500	DSR-500AC	DSR-1000	DSR-1000AC
Interfaces	Gigabit Ports (WAN) Gigabit Ports (LAN) USB Console	1 3+1 (LAN/WAN) 1 x USB 3.0 1 x RJ45	2 4 1 x USB 2.0	2 4 1 x USB 2.0	2 4 2 x USB 2.0	2 4 2 x USB 2.0
Performance	Firewall Throughput VPN Throughput Concurrent Sessions New Sessions (Per Second)	900 Mbps 200 Mbps 50,000 2,000	950 Mbps 200 Mbps 50,000 500	950 Mbps 200 Mbps 50,000 500	950 Mbps 250 Mbps 60,000 1,000	950 Mbps 250 Mbps 100,000 1000
	Firewall Policies	300	400	400	600	600
Internet Connection		DHCP, Static IP, PPPoE, L2TP, PPTP				
Firewall System	Static Route Dynamic Route Dynamic DNS Inter-VLAN Route NAT, PAT Web Content Filtering Intrusion Prevention System (IPS)	• • • Static URL, Keywords Signature Package Included in Firr	RIPv1, RIP v2, OSPF	RIPv1, RIP v2, OSPF	RIPv1, RIP v2, OSPF	RIPv1, RIP v2, OSPF
Networking	DHCP Server/Client DHCP Relay IEEE802.1q VLAN VLAN (Port-Based) IP Multicast IPv6 Route Failover Outbound Load Balancing 3G Redundancy	• • IGMP Proxy •	• •	•	•	•
Wireless*	Multiple Service Set Identifier (SSID) Service Set Identifier (SSID) to VLAN Mapping Standards Wireless Security	· ·		• • 802.11a/b/g/n/ac WEP/WPS/WPA-PSK/WPA-EAP/ WPA2-PSK/WPA2-EAP		• • 802.11a/b/g/n/ac WEP/WP5/WPA-PSK/WPA-EAP/ WPA2-PSK/WPA2-EAP
VPN	VPN Tunnels IPSec Tunnels SSL VPN Tunnels PPTP/L2TP Tunnels GRE Encryption Methods ISL Encryption Methods IPSec/PTP/L2TP Server IPSec NAT Traversal Dead Peer Detection	75 50 20 30 20 DES, 3DES, AES, Twofish, Blowfish, RC4-128, 3DES, AES • •	85 35 10 25 15 , CAST-128, NULL	85 35 10 25 15	135 70 20 25 20	135 70 20 25 20
Bandwidth Management System	IP Encapsulating Security Payload (ESP) IP Authentication Header (AH) VPN Tunnel Keep Alive Hub and Spoke Maximum Bandwidth Control Priority Bandwidth Control Web-Based User Interface	• • • Port-Based QoS, 3 Classes HTTP, HTTPS				
System Management Physical and Envirnmental	Command Line SNMP Power Supply Maximum Power Consumption Dimensions (L x W x H) Operating Temperature Operating Humidity	v 1 / v2c / v3 External 12.6 W 190 x 120 x 38 mm 0°C to 40°C 5% to 95% RH Non-Condensing	Internal 15.6 W 180 x 280 x 44 mm	Internal 16.8 W 180 x 280 x 44 mm	Internal 17.2 W 180 x 280 x 44 mm	Internal 19.3 W 180 x 280 x 44 mm

* Applicable to Wireless Model only.

D-Link .

DFL-870M

UTM Firewall

The D-Link DFL-870M UTM Firewall is a next generation Unified Threat Management (UTM) firewall which provides a powerful security solution to protect business networks from a wide range of threats. The DFL-870M offers a comprehensive defense against virus attacks, unauthorized intrusions, and flooding of harmful traffic, for successfully managing, monitoring, and maintaining a healthy network.

The DFL-870M provides a complete set of advanced security features to secure, manage, and monitor your network. These features include remote management, bandwidth control policies, URL blacklists and whitelists, access policies, and SNMP support. The DFL-870M furthermore supports email alerts, system logging, consistency checking, and real-time statistics gathering that keeps you up-to-date on the status of the network. Additionally, multiple WAN ports support traffic load balancing and failover, thus guaranteeing Internet availability and bandwidth. The D-Link DFL-870M integrates an intrusion detection and prevention system, gateway antivirus, content filtering, and application control for superior Layer 7 content inspection. An acceleration engine increases throughput, while the real-time update service keeps the IDPS information, anti-virus signature, URL and application databases current. Combined, these enhancements help to protect office networks from application exploits, network worms, malicious code attacks, and provide everything a business needs to safely manage employee Internet access. D-Link offers optional, cost-efficient, per-device Firewall UTM Service subscriptions that ensure that each of the firewall's service databases remain up-to-date.

Key Series Features

INTEGRATED FIREWALL

- Multiple WAN ports for WAN failover and outbound load balancing
- Link aggregation on LAN ports
- IEEE 802.1Q VLAN
- Granular bandwidth management

UNIFIED THREAT MANAGEMENT (UTM)

- Intrusion Detection & Prevention System (IDPS)
- Anti-virus protection
- Web Content Filtering (WCF) in HTTP/ HTTPS
- Application control
- Email security

VIRTUAL PRIVATE NETWORK (VPN)

- Supports IPSec, SSL, GRE protocols
- Redundant VPN gateway
- Hub-and-spoke VPN support

ADVANCED FUNCTIONS

- User authentication through:
- Captive portal
- User Identity Awareness
- Active/passive High Availability (HA)

		-
- Line		
	-19.88	

MODEL		DFL-870
	Ports	10 x GE + 2 combo GE/SFP
Interfaces	USB Port	1 x USB 2.0 Ports
	Console Port	1 RT45 Console Port
	Firewall Throughput	4 Gbps
	VPN Throughput	1 Gbps
Suctor	IPS Throughput	2 Gbps
System Performance	AV Throughput	2 Gbpsv
renomance	Concurrent Sessions	1,000,000
	New Sessions per second	40,000
	Policies	38,400
	Transparent Mode	\checkmark
	NAT, PAT	\checkmark
	OSPF Dynamic Routing Protocol	\checkmark
Firewall System	NAT Traversal	\checkmark
	Time Scheduled Policies	\checkmark
	Application Layer Gateway	\checkmark
	ICSA Certified	\checkmark
	DHCP Server/Client	\checkmark
	DHCP Relay	\checkmark
Networking	Policy-Based Routing	\checkmark
	802.1q VLAN	\checkmark
	IGMP v3	\checkmark

D-Link



MODEL		DFL-870M
Traffic Load	Outbound Traffic Load Balancing	✓
Balancing	Server Load Balancing	\checkmark
Algorithms for	Round Robin	\checkmark
Outbound Load	Destination-Based	\checkmark
Balancing	Spillover	\checkmark
	Policy-Based Traffic Shaping	\checkmark
	Guaranteed Bandwidth	1
	Maximum Bandwidth	J
Bandwidth	Protocol	·
Management	Priority Bandwidth	1
	Dynamic Bandwidth Balancing	\checkmark
	Bandwidth Management in VPN Tunnel	\checkmark
	WAN Failover	J
	Traffic Re-Direct at Failover	v V
	Active-Passive Mode	v J
High Availability	Device Failure Detection	с. У
	Link Failure Detection	у У
	FW/VPN Session SYN	v V
	Automatic Pattern Update	у У
Intrusion Detection	DOS, DDOS Protection	v J
& Prevention	Attack Alarm via Email	v V
System (IDP/IPS)	Advanced IDP/IPS	v V
-,,	IP Blacklist	v V
	НТР	У
	HTTPS	<u>_</u>
Content Filtering	Script Types	у У
	Safe Search Enforcement	<u>_</u>
	Real-time AV Scanning	<u>_</u>
	Stream-based Scanning	<u></u>
	Scans, VPN Tunnels	, ,
Antivirus	ZIP/GZIP Compression File	<u>,</u>
	Signature Licenser	, ,
	Automatic Pattern Update	- -
	IMAP, SMTP and POP3 Protocols Support	- -
	Sender/Recipient Email Address Black List/	
	Exempt	1
	List Filtering	\checkmark
Email Security	MIME Header Check	1
	File Type Whitelisting/Blacklisting	\checkmark
	File Extension	1
	Anti Spam	\checkmark
	12/24/36 months availbale	J
	Service Subscription	•
	Application B/W Management, Policy Control & Prioritization	\checkmark
IM/P2P Blocking	Supports 1000+ recognized	
	application	\checkmark
	Schedule & Rule-Based Control	\checkmark

DFL-870M-AV-12-LIC	Antivirus signature—12 Months
DFL-870M-AV-24-LIC	Antivirus signature—24 Months
DFL-870M-AV-36-LIC	Antivirus signature—36 Months
DFL-870M-IPS-12-LIC	IPS Signature—12 Months
DFL-870M-IPS-24-LIC	IPS Signature—24 Months
DFL-870M-IPS-36-LIC	IPS Signature—36 Months
DFL-870M-AC-12-LIC	Application Control Signature—12 Months
DFL-870M-AC-24-LIC	Application Control Signature—24 Months
DFL-870M-AC-36-LIC	Application Control Signature—36 Months
DFL-870M-WCF-12-LIC	WEB CONTENT FILTERING SIGNATURE—12 Months
DFL-870M-WCF-24-LIC	WEB CONTENT FILTERING SIGNATURE—24 Months
DFL-870M-WCF-36-LIC	WEB CONTENT FILTERING SIGNATURE—36 Months
DFL-870M-ALL-12-LIC	All-in-one Signature (AV+IPS+AC+WCF)—12 Months
DFL-870M-ALL-24-LIC	All-in-one Signature (AV+IPS+AC+WCF)-24 Months
DFL-870M-ALL-36-LIC	All-in-one Signature (AV+IPS+AC+WCF)—36 Months

Deployment Scenario

IPSec VPN



IPSec VPN

Are





D-Link

Cloud-Managed Multi-Layered Protection That Helps Keep Internet-Borne Threats at Bay

....

Cloud Security Gateway | DBG-2000





Powerful features that keep users and the network safe

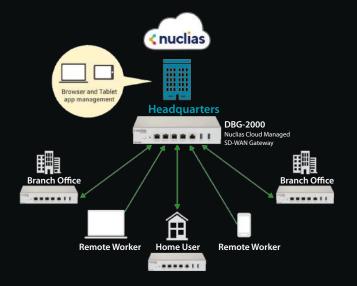




NUCLIAS CLOUD SD-WAN SECURITY GATEWAY DBG-2000

- Powerful and enduring multi-aspect protection for SMB cloud networks that keeps the network and users securer on all fronts.
- Centralized cloud-based management, with intuitive web and app-based interface.
- Formidable privacy with easy-to-establish point-to-point VPN options.
- Get the best network utilization thanks to Smart Bandwidth Management.
- Equipped with IPS, the network is actively on guard to protect itself.
- Dynamic Content Filtering facilitates categorization and control of accessible sites
- Network firewall provides a formidable first line of defense.
- Bulk up security further with Application Control, controlling which application can utilize the network.
- With Zero Touch Deployment, configure directly from the cloud, no on-site setup necessary.

Application Topology



Why You Want It



Cloud-Based Management

Manage on-site or remotely, wherever, whenever



Application Control

Streamline configuration of security settings and propagate to all the connected SD-WAN gatewaysbrowsing behaviors analytics



Intrusion Prevention System

Inspect vulnerabilities and protect intrusions from unknown backdoors



Auto VPN

Easily build VPN tunnels between Nuclias Cloud SD-WAN Gatewaysgatewaysbrowsing behaviors analyticsanalytics

Dynamic Web Content Filtering The Web Content Filtering feature keeps the network safe against

malicious websites and provide

browsing behaviors analytics

Zero Touch Provisioning

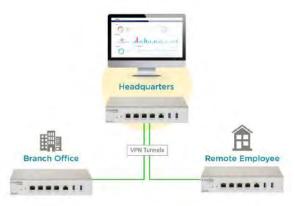
Automatically configured,

no on-site setup

necessaryanalytics

Quick VPN Enables the Modern Decentralized Workforce Nuclias Connect

As your workforce moves from the office desk to the home one, Nuclias enables easy P2P VPN tunneling for better business privacy and remote working. Rapidly establish your VPN via the Nuclias dashboard for more secure connections.





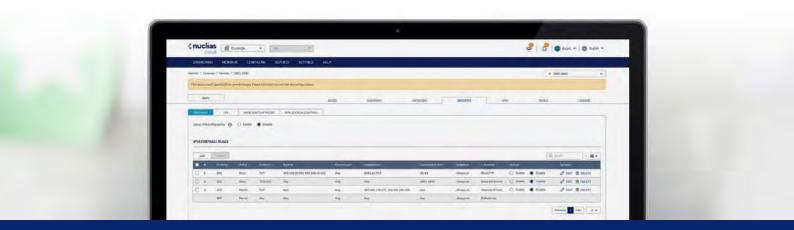
A Stalwart of Network Security

The DBG-2000 is adept at keeping business networks more secure. The powerful network firewall filters traffic, blocking anything that shouldn't be there.

Meanwhile, the Intrusion Prevention System (IPS) actively shields the network from modern day threats such as DDoS attacks, brute force attacks or vulnerability exploits, as well as raising the alarm alerting administrators to irregularities.

Policy Management Complexity, Drastically Simplified

Poloies, Policies, Policies. Nuclias empowers you with the toole you need, such as Content Filters, Firewalls, or Application Control. Define you policies as necessary and then roll them out across the entire network for greater network-wide conistency.



Complete Cloud Managed Solution

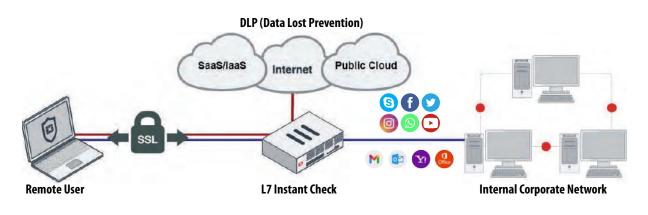




InstantCheck®

by L7 Network- Secure Web Gateway

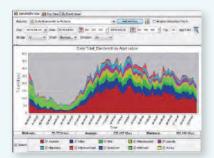
Existing web security solutions focus on filtering threats within http channels. However, more and more web sites redirect users to https-encrypted tunnels for privacy reasons so existing security solutions are bypassed. Such applications include Google Search / Map / Mail / Drive / Doc / Plus / Chat / Youtube, Twitter, Facebook, Facebook Chat, Dropbox, Yahoo Mail, Microsoft Outlook (Hotmail) / OneDrive / Skype / Line.As cloud services prevail, researchers had indicated that more than 90% of traffic will be encrypted in https by 2020. Auditing and filtering web contents becomes an uneasy job but everyone pretends to be unaware of this issue because no solution is available. It's time to face the truth.



• Visibility: not just reports, but in real-time

- Real-time drill down into https sessions: IP/URL/Web category
- Track Line App into: Login/ File-up / file-dw / video / voice / store /...

3784												0.00 1	040.5
TCP.	1	7272	161.101.230.2	taboola.com	143	sni.	1	7.32K	127 K	22	28	0.00 1	0.90 b
TOP TOP	1	4931-0	40.119.211.200	Windows.com	443	ani.	1	14.1210	4.50 K	68	64	0.00.8	0.00 6
TCP TCP	1	7347	192 229 232 200 1	hypeassets.com	443	101.	Ŧ	0.55K	911.00 E	15	16	0.00 1	0.90 1
TCP TCP	1	7247.00	101.117.5.42	ahapen br	4430	snit.		25.1116	0.20 K	112	112	0.00 5	0.00 6
TCP TCP	1	7348	52,114 158.91	micaseof.com	44362	ant.	1	7.2BK	10.41.40	- 15	21	0.00 5	0.000
TCP.	1	7340	13.70.217.211	skape.com	443	ini.	1	0.65K	1.02 K	41	13	0.00 1	0.000
TOP TOP	1	7031	92 223 85 104	AnyMat Relay	80	106	1	916K	14.52 K	283	282	0.00 1	0.00 8
TCP 10P	1	7170-0	15110174214	JANWINE.	443	\$05.	T	574.54K	414K	492	194	0.00 1	0.90 to
TCP TCP		7020-0	11 75 105.0	skype com	4470	uni	-1	61516	2 82 K	34	62	0.00 5	040%
TCP TCP	1	7140	40.119.211.203	wndaws.com	\$436.0	eni.	1	6.16K	2.25 K	29	43	0.00 1	0.000
TCP	1	724100	103.117 4.201	shippen.te	443	sri.	1	588.25 K	37.42 K	544	260	0.00 8	0.00 8
🙀 ana	1							19.85K	1545 K	284	240	0.00 5	0.001
R mysg	20							1.42.11	225 10 K	5,242	0.530	3.22 K	2.116
😂 scan	1							0.00 B	692.00 E	0	4	0.00 \$	0.00 b
Shortes	7							0.40B	7.00 E	7	7	0.00 s	0.008
🔁 skype.	2							28.89K	69.65 N	70	105	0.00 1	0.00 0
akpette-	+							82114	1275 K	-95	27	0.00 5	0.00 b
W- snmp	٤.							774.40B	230 DO E	4	4.	0.00 5	0.00 b
357	1							11.80K	8 56 K	234	253	0.00 5	0.000
Can avenue al a desar de								Namali	ALTAN	44	44.70	0000	



• Security: not just blacklists, but threat centers

- Detect botnets / ransomwares with 8 global threat centers
- Top reports of malware / C&C / compromised hosts / cryptojack /



- QoS : not just limites, but guarantees
 - Patented PotACK TCP control
 - Schedule-based policy
 - Quota control

• Security:

- Block C&C/botnets
- Stop IP Spoofing attacks
- Limit access to unwanted web categoriesl



· Recorder: not just emails, but also WebMails

- Record popular WebMail / WebHD / Social / Messenger cloud contents
- Match keywords with alerts to auditors for further investigations
- Track and filter employees' cloud behaviors

Regulatory compliance

- Lawful compliance to GDPR, Sarbanes-Oxley, ISO27000, PCI-DSS, HIPAA,...
- Improve corporate governance with strict content rules



DLP (Data Lost Prevention)

• Web DLP: WebMails

- Transparently installed between employees and firewall
- Decrypt HTTPS to scan for any personal identity information (PII)
- Built-in PII fields: name/ addr / tel / visa / birth date / gender /

• USB DLP

- Lock down Mass Storage Device to prevent information leakage
- Allow USB drives only issued by your corporation

Email DLP

- Transparent installed between your mail server & firewall.
- Scan outgoing SMTP mails for PII / secrete patterns

InstantCheck[®] Choice: 4 Package for Your Business

	Basic	Silver	Gold	Max
NPM: (Network Performance Monitoring)	•	۰	•	•
QoS: (Quality of Service)		٠	•	•
SWG: Proxy/ Secure Web Gateway			•	•
DLP: Data Loss Protection				•



D-Link FOR BUSINESS

Dimension 19/10 19/10 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 19/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20	General		ICEO	16100	ICEOO	161000	100000	105000	100000	1610000
2GB 2GB 4GB 4GB 4GB 4GB 4GB 4GB 4GB 6GB 6GB <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>IC10000</td>										IC10000
Interface IG UTP GEv4 GEv1	umension	1								
1G Fiber - - SFPA2 SFPA2 SFPA2 max4 max4 Management GEx1										
IDG FiberV · · Optional GEA1 Optional Optional Fiber V Optional GEA1 Optional GEA3	Interface									
Management Management Analydware Bypas GEx1 GEx1 GEx1 GEx4 GEx4 GEx4 GEx4 GEx4 GEx4 GEx4 GEx4						-	-	-		
Hardware Bypass GEA GEA <thgea< th=""></thgea<>										
Optional Fiber Bypass Silicom Silicom Silicom Silicom Silicom SDD Capacity (Expandible) 480GB 480										
SSD C spacify (Expandible) 480GB 480GB <td< td=""><td></td><td></td><td>GEx4</td><td></td><td></td><td>GEx4</td><td>GEx4</td><td></td><td></td><td>-</td></td<>			GEx4			GEx4	GEx4			-
Performance Product of the second secon			-			-	-			
Max Concurrent IPs 70 250 500 1000 3000 5000 8000 20000 Max Session Rate 1000/s 1850/s 3000/s 5150/s 10K/s 20K/s 30K/s 40K/s Max Concurrent Sessions 20K 200K 300K 1M 2W 4M 8M 12M Lan-to-Lan Throughput 80Mbps 200Mbps 300Mbps 600Mbps 12.Gbps 2Gbps 4Gbps 6Gbps Lan-to-Wan Throughput 15Mbps 30Mbps 75Mbps 200Mbps 500Mbps 1Gbps 2Gbps 4Gbps 4Gbps 4Gbps 4Gbps 4Gbps 40Bvp 40 40K/s 40Bvp 40 40K/s 40Bvp 40 40V 80 40V			480GB	480GB	480GB	480GB	480GB	480GB	480GB	480GB
Max Session Rate 1000/s 1850/s 3000/s 1510/s 100/s 200/s 300/s Max Concurrent Sessions 200k 200k 200k 100k	Perform	ance								
Max Concurrent Sessions 20K 200K 1M 2M 4M BM 12M Lan-to-UM Throughput 80Mbps 200Mbps 200Mbps 15Mbps 2Gbps 4Gbps 6Gbps Specifications 30Mbps 75Mbps 200Mbps 500Mbps 1Gbps 2Gbps 4Gbps Specifications Support IPv4/IPv6 sniffer/inline/proxy mode deployment with L7 applicationcrol and https decryption User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Web Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL webMail Weite Reconstructing and filtering of webhal upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc LeakyzQ Content Forensics EnteryTP Reconstructing and filtering of web messengers (messages / files), including PC-version Skype / Line / Wechat etc LeakyzQ Content Forenesics EnteryTP Re	Max Concu	urrent IPs	70	250		1000	3000	5000	8000	20000
Lan-to-Lan Throughput 80Mbps 200Mbps 300Mbps 600Mbps 1.3Gbps 2Gbps 4Gbps 6Gbps Specifications 30Mbps 30Mbps 75Mbps 200Mbps 500Mbps 1Gbps 2Gbps 4Gbps 4Gbps <td>Max Sessio</td> <td>on Rate</td> <td>1000/s</td> <td>1850/s</td> <td>3000/s</td> <td>5150/s</td> <td>10K/s</td> <td>20K/s</td> <td>30K/s</td> <td>40K/s</td>	Max Sessio	on Rate	1000/s	1850/s	3000/s	5150/s	10K/s	20K/s	30K/s	40K/s
Lan-to-Wan Throughput 15Mbps 30Mbps 75Mbps 200Mbps 1Gbps 2Gbps 4Gbps Specifications Support IPv4/IPv6 sniffer/inline/proxy mode deployment with L7 applicationcontrol and https decryption User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Reconstructing and filtering of wtps get / post requests, including filename, file content, uploaded files, URL WebMail Web Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebSocial Reconstructing and filtering of webmail senders / Receivers / Attachments, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Editor of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics Image: sincluding porn / ads / gambling / stocks / news / games / comics / chatrooms / Jokes / hackers / phishing etc End-Point Forensics URL Database Support POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics URL Database S	Max Concu	urrent Sessions	20K	200K	300K	1M	2M	4M	8M	12M
Specifications Deeployment Support IPv4/IPv6 sniffer/inline/proxy mode deployment with L7 applicationcontrol and https decryption User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL WebMail WebMail Reconstructing and filtering of webhd upload / download files, including Gmail / Outlook / Yaho Mail etc WebHD Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Faceboc / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Pango / WeChat etc WebIM Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents EnderVFTP Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents EnderVrTP Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingC etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Wins	Lan-to-Lar	n Throughput	80Mbps	200Mbps	300Mbps	600Mbps	1.2Gbps	2Gbps	4Gbps	6Gbps
Deployment Support IPv4/IPv6 sniffer/inline/proxy mode deployment with L7 applicationcontrol and https decryption User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebSocial Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Graal / Outlook / Yaho Mail etc WebMD Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Graal / Outlook / Yaho Mail etc WebMD Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook Chat / Google Hango / WeChat etc WebMI Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents End-Point Forensics Getonstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics MP4 video recording of Line / Line@chrome / skype / skype@Winstor / WeChat / Aliwangwang / QQ / DingD etc URL Database Support 70+ URL categories, in	Lan-to-Wa	n Throughput	15Mbps	30Mbps	75Mbps	200Mbps			2Gbps	4Gbps
Deployment Support IPv4/IPv6 sniffer/inline/proxy mode deployment with L7 applicationcontrol and https decryption User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebSocial Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Graal / Outlook / Yaho Mail etc WebMD Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Graal / Outlook / Yaho Mail etc WebMD Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook Chat / Google Hango / WeChat etc WebMI Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents End-Point Forensics Getonstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics MP4 video recording of Line / Line@chrome / skype / skype@Winstor / WeChat / Aliwangwang / QQ / DingD etc URL Database Support 70+ URL categories, in	Specifica	ations								-
User Identification Single-sign-on AD integration by auto NTLM, proxy authentication, web login, end-point agent, AD log events ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Web Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho WebMail Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc. WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / Wechat etc Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents Email Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website links Anti-Virus Database Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Sopport T0+ Lucatomization of blocking page which contains user name, source IP, reason to block QoS by URL Category Google Safe Browsing Integrate P / domai			C (1D (/ID 6 :66 /:	1. /			• •• • •	11.00 1	
events events Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL WebMail Web Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebHD Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebSocial Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / Wechat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents End-Point Forensics (Optional) Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Mtp(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Ransomware Protection Integrate IP / do										
Real time Monitoring ICAP redirection of decrypted https traffic for anti-virus, malware sandboxing, data leakage prevention (DLP) Cloud Content Forensics Web Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho WebHD Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / Wechat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents End-Point Forensics (Optional) Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Othat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / Ding Detc URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc G	User Identi	ification		n AD integrati	on by auto NT	LIM, proxy auth	nentication, we	eb login, end-p	point agent, Al	log
Cloud Content Forensics Web Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho WebHD Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Faceboor / WebAsocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Faceboor / WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Ender/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Mety video recording of Line / Line@chrome / skype @Winstore / WeChat / Aliwangwang / QQ / Ding Detc Chat Screen Recorder Mety video recording of Line / Line@chrome / skype @Winstore / WeChat / Aliwangwang / QQ / Ding Detc URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comic	Destat	4				(L		(D) D
Web Reconstructing and filtering of https get / post requests, including filename, file content, uploaded files, URL WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho MebHD Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc MttpS Safe Browsing Integrate thacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate transomware domain prediction engine from Malware Patrol to stop downloading ke	Real time N	Vionitoring	ICAP redirect	ion of decrypt	ed https traffic	c for anti-virus,	malware sand	boxing, data le	eakage preven	tion (DLP)
WebMail Reconstructing and filtering of webmail Senders / Receivers / Attachments, including Gmail / Outlook / Yaho Mail etc WebHD Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Enet/FTP Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc Mtp(s) Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website links Anti-Virus Database Integrate Polacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website links Rotnet C&C Blacklists Integrate ransomware domain prediction engine from Malware Patrol to stop downloading key	Cloud Co	ontent Foren	sics							
Mail etc WebHD Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hangoo / WeChat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder Reconstruction of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc Mtp(s) Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate P/ domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block. QoS byl URL Category	Web									
WebHD Reconstructing and filtering of webhd upload / download files, including Dropbox / Google Drive / OneDrive etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebooc / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingC etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransonware Protection Integrate IP / domain clacklists from FireHOL, C	WebMail			ing and filterin	g of webmail	Senders / Rece	ivers / Attachn	nents, includin	ng Gmail / Outl	ook / Yahoo
etc WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook Chat / Google Hango / WeChat etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc Mtp(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Mactivus Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Nati-Virus Database Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Rate Virus Total-listed anti-virus engine AegisLab Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sites Botnet C&C Blacklists Integrate IP										
WebSocial Reconstructing and filtering of social website behaviors (posts, photo sharing, status,), including Facebook / Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingDetc URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sies Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS				1.01. 1			1.01			10 01
/ Twitter etc WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango / WeChat etc Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder Me4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Transomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / extern	WebHD			ing and filterin	g of webhd u	pload / downlo	ad files, incluc	ling Dropbox /	Google Drive	/ OneDrive
WebIM Reconstructing and filtering of web messengers (messages / files), including Facebook Chat / Google Hango /WeChat etc Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransonware Protection Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Categories Support HTML customization of blocking page which contains user name, source IP, reason to block Q			etc							
/ WeChat etc Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYDD Support detection of PC / Androld / iOS	WebHD WebSocial		etc Reconstruct	ing and filterin						
Legacy Content Forensics Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYDD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules	WebSocial		etc Reconstruct / Twitter etc	ing and filterin	g of social we	bsite behaviors	s (posts, photo	sharing, statu	s,), includir	ng Faceboo
Telnet/FTP Reconstruction of Telnet screen, FTP behaviours (upload / download file names and file contents Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS /			etc Reconstruct / Twitter etc Reconstruct	ing and filterin	g of social we	bsite behaviors	s (posts, photo	sharing, statu	s,), includir	ng Faceboo
Email Reconstruction of SMTP / POP3 / IMAP, sent / received emails with attachment file contents End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules	WebSocial WebIM		etc Reconstruct / Twitter etc Reconstruct / WeChat etc	ing and filterin	g of social we	bsite behaviors	s (posts, photo	sharing, statu	s,), includir	ng Faceboo
End-Point Forensics (Optional) Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules	WebSocial WebIM Legacy (Content Fore	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics	ing and filterin ing and filterin c	g of social we	bsite behaviors	s (posts, photo ages / files), inc	sharing, statu	s,), includir bok Chat / Goo	ng Faceboo
Message Recorder Reconstruction of messengers (messages / files), including PC-version Skype / Line / Wechat etc Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botnet C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP	Content Fore	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi	ing and filterin ing and filterin c on of Telnet sc	g of social we g of web mes reen, FTP beh	bsite behaviors sengers (messa aviours (uploa	s (posts, photo ages / files), inc d / download f	sharing, statu Iluding Facebo	s,), includir bok Chat / Goo file contents	ng Faceboo
Chat Screen Recorder MP4 video recording of Line / Line@chrome / skype / skype@Winstore / WeChat / Aliwangwang / QQ / DingD etc http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botnet C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email	Content Fore	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi	ing and filterin ing and filterin c on of Telnet sc	g of social we g of web mes reen, FTP beh	bsite behaviors sengers (messa aviours (uploa	s (posts, photo ages / files), inc d / download f	sharing, statu Iluding Facebo	s,), includir bok Chat / Goo file contents	ng Faceboo
http(s) Safe Browsing Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botnet C&C stos Rost C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email	Content Fore	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional)	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P	g of social we g of web mes reen, FTP beh OP3 / IMAP, se	bsite behaviors sengers (messa aviours (upload ent / received e	s (posts, photo ages / files), inc d / download f emails with att	iluding Facebo	s,), includir pok Chat / Goo file contents ontents	ng Faceboo
http(s) Safe Browsing URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botnet C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin	Content Fore	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional)	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P	g of social we g of web mes reen, FTP beh OP3 / IMAP, se	bsite behaviors sengers (messa aviours (upload ent / received e	s (posts, photo ages / files), inc d / download f emails with att	iluding Facebo	s,), includir pok Chat / Goo file contents ontents	ng Faceboo
URL Database Support 70+ URL categories, including porn / ads / gambling / stocks / news / games / comics / chatrooms / jokes / hackers / phishing etc Google Safe Browsing Integrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compromised website links Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R	Content Fore ont Forensics (Recorder	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng	g of social we g of web mes reen, FTP beh OP3 / IMAP, so Jers (messages	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version	sharing, statu cluding Facebo file names and achment file co Skype / Line /	s,), includir pok Chat / Goo file contents ontents Wechat etc	ng Faceboo gle Hangou
jokes / hackers / phishing etcGoogle Safe BrowsingIntegrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website linksAnti-Virus DatabaseIntegrate Virus Total-listed anti-virus engine AegisLabRansomware ProtectionIntegrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botnet C&C sitesBotnet C&C BlacklistsIntegrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updatesCustomized Block PageSupport HTML customization of blocking page which contains user name, source IP, reason to blockQoS by URL CategoryQoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categoriesBYODSupport detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rulesUSB ControlSupport blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree	Content Forei o nt Forensics (Recorder en Recorder	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng	g of social we g of web mes reen, FTP beh OP3 / IMAP, so Jers (messages	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version	sharing, statu cluding Facebo file names and achment file co Skype / Line /	s,), includir pok Chat / Goo file contents ontents Wechat etc	ng Faceboo gle Hangou
Google Safe BrowsingIntegrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website linksAnti-Virus DatabaseIntegrate Virus Total-listed anti-virus engine AegisLabRansomware ProtectionIntegrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sitesBotnet C&C BlacklistsIntegrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updatesCustomized Block PageSupport HTML customization of blocking page which contains user name, source IP, reason to blockQoS by URL CategoryQoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categoriesBYODSupport detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rulesUSB ControlSupport blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree	Content Forei o nt Forensics (Recorder en Recorder	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng	g of social we g of web mes reen, FTP beh OP3 / IMAP, so Jers (messages	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version	sharing, statu cluding Facebo file names and achment file co Skype / Line /	s,), includir pok Chat / Goo file contents ontents Wechat etc	ng Faceboo gle Hangou
Google Safe BrowsingIntegrate blacklists from Google Safe Browsing to stop visiting malicious / phishing / botnet C&C / compro- mised website linksAnti-Virus DatabaseIntegrate Virus Total-listed anti-virus engine AegisLabRansomware ProtectionIntegrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne C&C sitesBotnet C&C BlacklistsIntegrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updatesCustomized Block PageSupport HTML customization of blocking page which contains user name, source IP, reason to blockQoS by URL CategoryQoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categoriesBYODSupport detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rulesUSB ControlSupport blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of messeng ecording of Lin	g of social we g of web mes: reen, FTP beh OP3 / IMAP, so lers (messages e / Line@chro	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore	iluding Facebo ile names and achment file co Skype / Line / e / WeChat / Al	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G	ng Faceboo gle Hangou QQ / DingD
Anti-Virus Database Integrate Virus Total-listed anti-virus engine AegisLab Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from botne Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of messeng ecording of Lin	g of social we g of web mes: reen, FTP beh OP3 / IMAP, se lers (messages e / Line@chro	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore	iluding Facebo ile names and achment file co Skype / Line / e / WeChat / Al	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G	ng Faceboo gle Hangou QQ / DingD
Ransomware Protection Integrate ransomware domain prediction engine from Malware Patrol to stop downloading keys from bothe C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing mase	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go	g of social we g of web mes: reen, FTP beh OP3 / IMAP, se lers (messages e / Line@chro	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version ype@Winstore abling / stocks	ile names and achment file co Skype / Line / e / WeChat / Al	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G	ng Faceboo gle Hangou QQ / DingD atrooms /
C&C sites Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing hase fe Browsing	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links	g of social we g of web mess reen, FTP beh OP3 / IMAP, se Jers (messages e / Line@chro es, including p tc bogle Safe Bro	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version ype@Winstore abling / stocks	ile names and achment file co Skype / Line / e / WeChat / Al	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G	ng Faceboo gle Hangou QQ / DingD atrooms /
Botnet C&C Blacklists Integrate IP / domain clacklists from FireHOL, Cisco Talos, NICST etc with periodical auto updates Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing hase fe Browsing	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate Vir	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed	g of social we g of web mess reen, FTP beh OP3 / IMAP, se Jers (messages e / Line@chro es, including p etc pogle Safe Bro anti-virus eng	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version ype@Winstore ibling / stocks visiting malicic	sharing, statu sharing, statu cluding Facebo ile names and achment file of Skype / Line / e / WeChat / Al / news / game ous / phishing	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / (is / comics / ch / botnet C&C /	ng Faceboo gle Hangor QQ / DingD atrooms / compro-
Customized Block Page Support HTML customization of blocking page which contains user name, source IP, reason to block QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R Chat Scree http(s) S URL Datab Google Sat	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing base fe Browsing Database	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate Vir Integrate rar	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed	g of social we g of web mess reen, FTP beh OP3 / IMAP, se Jers (messages e / Line@chro es, including p etc pogle Safe Bro anti-virus eng	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version ype@Winstore ibling / stocks visiting malicic	sharing, statu sharing, statu cluding Facebo ile names and achment file of Skype / Line / e / WeChat / Al / news / game ous / phishing	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / (is / comics / ch / botnet C&C /	ng Faceboo gle Hangol QQ / DingD atrooms / compro-
QoS by URL Category QoS policy rules are conditioned on internal / external IP / network / range, built-in or self-defined URL categories BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R Chat Scree http(s) S URL Datab Google Sal Anti-Virus Ransomwa	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing base fe Browsing Database are Protection	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacket Integrate bla mised websi Integrate vir Integrate rar C&C sites	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed asomware dom	g of social we g of web mess reen, FTP beh OP3 / IMAP, so ers (messages e / Line@chro es, including p etc pogle Safe Bro anti-virus eng nain prediction	bsite behaviors sengers (messa aviours (uploa ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop o ine AegisLab	s (posts, photo ages / files), inc d / download f emails with atta ing PC-version ype@Winstore abling / stocks visiting malicio Malware Patro	sharing, statu sharing, statu cluding Facebo file names and achment file co Skype / Line / e / WeChat / Al / news / game pus / phishing	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / C is / comics / ch / botnet C&C /	ng Faceboo gle Hangol QQ / DingD atrooms / compro-
BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&d	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate vir Integrate rar C&C sites Integrate IP	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed isomware dom	g of social we g of web mess reen, FTP beh OP3 / IMAP, so lers (messages e / Line@chro es, including p etc bogle Safe Bro anti-virus eng nain prediction lists from Firel	bsite behavior: sengers (messa aviours (uploa ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from I HOL, Cisco Talc	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore ubling / stocks visiting malicic Malware Patro	sharing, statu sharing, statu cluding Facebo file names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing l to stop down ith periodical a	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G s / comics / ch / botnet C&C / iloading keys f auto updates	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botnet
BYOD Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&d Customize	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate vir Integrate rar C&C sites Integrate IP / Support HTM	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed issomware dom / domain clack /L customizati	g of social we g of web mess reen, FTP beh OP3 / IMAP, so lers (messages e / Line@chro es, including p etc bogle Safe Bro anti-virus eng hain prediction lists from Firel on of blocking	bsite behavior: sengers (messa aviours (uploa ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from l HOL, Cisco Talc g page which co	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore ubling / stocks visiting malicic Malware Patro os, NICST etc w ontains user na	ile names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing l to stop down ith periodical a ame, source IP	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G s / comics / ch / botnet C&C / iloading keys f auto updates , reason to blo	ng Faceboo gle Hangou QQ / DingD atrooms / compro- rom botnet
Mobile Detection Support detection of PC / Androld / iOS / Windows Phone / BlackBerry devices for policy rules USB Control Support blocking of Windows USB mass storage devices but remaining functionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&d Customize	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate Vir Integrate rar C&C sites Integrate IP / Support HTM QoS policy r	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed issomware dom / domain clack /L customizati	g of social we g of web mess reen, FTP beh OP3 / IMAP, so lers (messages e / Line@chro es, including p etc bogle Safe Bro anti-virus eng hain prediction lists from Firel on of blocking	bsite behavior: sengers (messa aviours (uploa ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from l HOL, Cisco Talc g page which co	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore ubling / stocks visiting malicic Malware Patro os, NICST etc w ontains user na	ile names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing l to stop down ith periodical a ame, source IP	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G s / comics / ch / botnet C&C / iloading keys f auto updates , reason to blo	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botnet
USB Control Support blocking of Windows USB mass storage devices but remaining funtionality of other USB accessories	WebSocial WebIM Legacy (Telnet/FTP Email End-Poir Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&d Customize	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate Vir Integrate rar C&C sites Integrate IP / Support HTM QoS policy r	ing and filterin ing and filterin on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed issomware dom / domain clack /L customizati	g of social we g of web mess reen, FTP beh OP3 / IMAP, so lers (messages e / Line@chro es, including p etc bogle Safe Bro anti-virus eng hain prediction lists from Firel on of blocking	bsite behavior: sengers (messa aviours (uploa ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from l HOL, Cisco Talc g page which co	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore ubling / stocks visiting malicic Malware Patro os, NICST etc w ontains user na	ile names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing l to stop down ith periodical a ame, source IP	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / G s / comics / ch / botnet C&C / iloading keys f auto updates , reason to blo	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botnet
	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&G Customize QoS by UR	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page C Category	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate vir Integrate vir Integrate rar C&C sites Integrate IP / Support HTM QoS policy rr categories	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed asomware dom / domain clack /L customizati ules are condit	g of social we g of social we g of web mess reen, FTP beh OP3 / IMAP, so ers (messages e / Line@chro es, including p tc bogle Safe Bro anti-virus eng nain prediction lists from Firel on of blocking ioned on inter	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from l HOL, Cisco Talc J page which c rnal / external l	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore abling / stocks visiting malicic Walware Patro os, NICST etc w ontains user na P / network / r	sharing, statu sharing, statu iluding Facebo file names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing a l to stop down ith periodical a ame, source IP ange, built-in o	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / C wangwang / C s / comics / ch / botnet C&C / loading keys f auto updates , reason to blo or self-defined	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botnet
Mobile SSO Support over-quota limiting policy to fully disconnect users or restrict users to a even lower bandwidth	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&G Customize QoS by UR BYOD Mobile Def	Content Forei ont Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page EL Category tection	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate bla mised websi Integrate vir Integrate rar C&C sites Integrate IP / Support HTM QoS policy rr categories	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed isomware dom / domain clack // domain clack	g of social we g of social we g of web mess reen, FTP beh OP3 / IMAP, so ers (messages e / Line@chro es, including p tc bogle Safe Bro anti-virus eng hain prediction lists from Firel on of blocking ioned on inter	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from / HOL, Cisco Talc g page which c rnal / external l	s (posts, photo ages / files), inc d / download f emails with att. ing PC-version ype@Winstore ubling / stocks visiting malicic Walware Patro os, NICST etc w ontains user m P / network / r	sharing, statu sharing, statu iluding Facebo file names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing a bus / phishing a l to stop down ith periodical a ame, source IP ange, built-in o y devices for p	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / C wangwang / C s / comics / ch / botnet C&C / loading keys f auto updates , reason to blo or self-defined olicy rules	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botne ck URL
	WebSocial WebIM Legacy (Telnet/FTP Email End-Poin Message R Chat Scree http(s) S URL Datab Google Sat Anti-Virus Ransomwa Botnet C&a Customize QoS by UR BYOD Mobile Def USB Contro	Content Forei nt Forensics (Recorder en Recorder Gafe Browsing Database are Protection C Blacklists ed Block Page L Category tection ol	etc Reconstruct / Twitter etc Reconstruct / WeChat etc nsics Reconstructi Optional) Reconstructi MP4 video re etc Support 70+ jokes / hacke Integrate bla mised websi Integrate vir Integrate rate Support HTM QoS policy rr categories Support det Support blo	ing and filterin ing and filterin c on of Telnet sc on of SMTP / P on of SMTP / P on of messeng ecording of Lin URL categorie ers / phishing e icklists from Go te links us Total-listed assomware dom / domain clack // domain clack // domain clack // customizati ules are condit	g of social we g of web mess reen, FTP beh OP3 / IMAP, so ers (messages e / Line@chro es, including p etc pogle Safe Bro anti-virus eng nain prediction lists from Firel on of blocking ioned on inter Androld / iOS / pws USB mass	bsite behaviors sengers (messa aviours (upload ent / received e s / files), includi me / skype / sk orn / ads / gam wsing to stop v ine AegisLab n engine from I HOL, Cisco Talc g page which c rnal / external I	s (posts, photo ages / files), inc d / download f emails with att ing PC-version ype@Winstore ubling / stocks visiting malicio Walware Patro os, NICST etc w ontains user ma P / network / r ne / BlackBerry s but remainir	sharing, statu sharing, statu cluding Facebo file names and achment file co Skype / Line / e / WeChat / Al / news / game bus / phishing l to stop down ith periodical a ame, source IP ange, built-in o y devices for p ng funtionality	s,), includir pok Chat / Goo file contents ontents Wechat etc iwangwang / C wangwang / C s / comics / ch / botnet C&C / loading keys f auto updates , reason to blo or self-defined olicy rules of other USB a	ng Faceboo gle Hangor QQ / DingD atrooms / compro- rom botne ck URL

InstantCheck® Secure · Monitor · Protect



QoS Pipes	
Tree-based Pipes	Support partitioning link bandwidth into QoS pipes which can be furthher divided into child QoS pipes
Guaranteed/Bursts	Each pipe can have a guarantee bandwidth with a burst bandwidth to borrow unused bandwidth from its parent pipe
Fairness withink Pipes	Flows can be defined by host/session/subnet and fairness among fiows within a pipe can be strictly enforced
Per-IP Limit	Support Per-IP policy for limiting bandwidth / quota / concurrent session / new session rate
2-Level Punishment	Support over-quota limiting policy to fully disconnect users or restrict users to a even lower bandwidth.
L7 Patterns (3000+)	
Chat	Line/QQ/ AliWang Wang/Fetion/Dushow/Popo/5inaUC/5kype/Yahoo/ AOL/ICQ/Jabber /LavaLava/Gadu/- GoogleHangout
P2P	Xunlei / Thunder / WebThunder / Flash Get / BT / eDonkey / eD2K / eMu le / Overn et / EzPeer / Kuro / ClubBox / Poco / F s2You / Ka Za A / Vagga / GoBoogy / Ares / iMesh / Gnutel la / WinMX / Bearshare / Shareaza / Morpheus / Gnucleus / Kugoo / Pigo / dc++ / 100bao etc
VoIP	Skype / Polycom / RTP / RTCP / SkypeOut / Eye ba11chat / SIP / TelTel / H .323 / MsnVoice / NetMeeting etc
Tunnel	Hopster / YourFreedom / Garden / Gpass / Tor / HttpTunnel / JAP / RealTunnel / Vnn / SoftEther / FreeGate / Wu jie etc
Streaming	QQTV / UUsee / PPfilm / PPlive / PPstream / RealPlayer / Quicklime / KKBox / Shoutcast / Winamp / Live365 / Radio365 / PPTV / Tvants / FastTV / SSTV / MeteorNetTV / 3TV / PhoenixTV / YahooMusic / MMS / SeeTV / QQlive / QQmusic / JetAudio / Jetcast
Enterprise	Citrix / MySQL / Notes / Oracle / MSSQL / RDP / VNC / UltraVNC / Win / PcAnywhere / Telnet / SSH / TeamViewer / Logmein
File Transfer	SkypeFile / Line File / SMB / FTP / OneDrive / GoogleDriveUp / Dropbox / AsusWebStorage / Aspera
Stock	HuaTai / Tazihuei / TungHuaShuen / Tienl / FenShiChia / Stoc kStar / ZaoZa ng / AnShi n / SkyNet
Game	Diablo3 / LoL / CounterStrike / DaHuaShiYo / Dance / Wa re raft / MoYu / CadinCa r / Mira cleWorid / Fight / WenDao / Lineage etc
http(s) DLP (Optiona	l)
File Formats	Support pdf / doc(x) / xls(x) / ppt(x) / txt / eml formats compressed in zip / tgz / 7z / rar / tar / gz files bandwidth
Rules	Support user-defined regular expressions with additional computational checking to lower false positives
Appearance	Support counting of appearances of each field with logical operators such as AND / OR / NOT to avoid false positives
Management	
User Interface	Support web-based Java UL, CLI (Telnet / SSH / Console), SNMP, management client software
Authentication	Support AD single sign-on or captive portal with AD / LDAP / RADIUS / POP3(S) / IMAP(S) authentication
Auto Upgrade	Scheduled updates of application patterns / URL database / Anti-botnet databaseAuto-save feature
Config Backup/Restore	facilitates easy configuration rollback to previous versions
Permission Control	Built-in centralized management and log server with 3-level permissions: admin / manager / audit



InstantBalance® Cloud-Gen Load Balancer

InstantBalance® by Network 7

Cloud-Generation Load Balancer

Enterprise in cloud generation requires a lot of bandwidth to access servers in clouds. InstantBalance can help enterprise use cheaper WAN links to achieve the goal based on weight to distribute traffic across links. You can even direct cloud apps such as WebEx/ Team to your preferred WAN links to make your main WAN link focus on your enterprise resource.

Inbound Multi-Homing

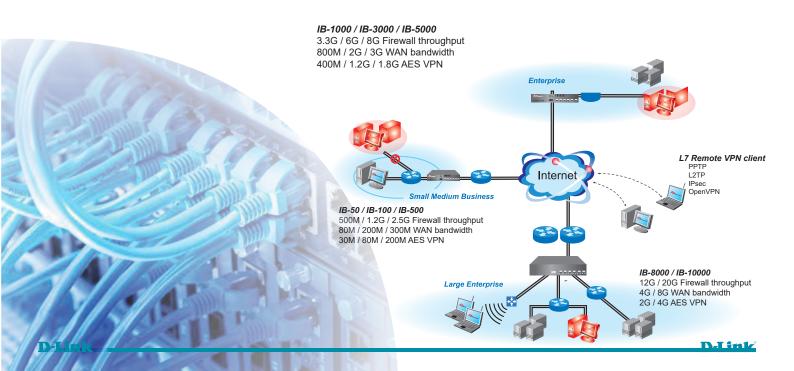
For WAN links serving outside requests, to optimal methods to make outside visitors come in evenly among WAN links.

Layer-7 Application Delivery

InstantBalance can import SSL certificates to terminate incoming SSL connections from outside visitors and establish plain-text web traffic to internal web servers according to weights assigned. Decrypted traffic can be furthur inspected by WAF to avoid common attacks such as SQL injection. Servers are checked if they work normally and will be bypassed if its loading is too high.

SD-WAN

SD-WAN in InstantBalance can replace together to provide as good quality as MPLS but with much cheaper costs. Software-defined WAN makes it possible to load balance between VPN tunnels on different HQ-Branch WAN links.





Model	50	100	500	1000	3000	5000	8000	10000
Size	19' 1U	19' 1U	19'1U	19' 2U	19' 2U	19' 2U	19' 2U	19' 2U
Memory	2GB	2GB	4GB	4GB	4GB	8GB	8GB	16GB
Interfaces(UTP)	GEx6	GEx6	GEx6	GEx6	GEx6	GEx6	GEx8	GEx8
Expanable UTP Expandable SFP	max:4 max:4	max:4	max:4	max:4 max:4	max:4 max:4	max:4 max:4	max:4 max:4	max:4 max:4
Expandable SFP+	max.4	max:4	max:4	max:4	max:4	max:4	max:4	max:4
Expandable QoS add-c	- on GEx6	- GEx6	- GEx6	GEx6(+4)	GEx6(+4)	GEx6(+4)	GEx6(+4)	GEx6(+4)
Power (110~240v)	Single	Single	Single	Single/Dual	Single/Dual	Single/Dual	Single/Dual	Single/Dual
Self-Defined WAN/LAN		V	V	V	V	V	V	V
Performance	N V	v	v	v	v	v	v	v
Max WANs (by VLAN)	10	20	20	50	100	100	300	500
Max concurrent IPs	200	500	1000	3000	5000	10000	20000	40000
Max rules	512	512	1024	1024	2048	4192	10K	20K
Max new session/sec	10K/s	20K/s	50K/s	70K/s	100K/s	200K/s	500K/s	1M/s
Max concurrent session		200K	300K	1M	2M	4M	8M	12M
WAN license(upgradab		200Mbps	300Mbps	600Mbps	1.2Gbps	2Gbps	4Gbps	6Gbps
System performance	500Mbps	1.2Gbps	2.5Gbps	3.3Gbps	6Gbps	8Gbps	12Gbps	20Gbps
VM platform	·		·	er-V / Citrix XenS				
			,	,	, p			
IPv4/IPv6 Load Balanc	0							
Deployment		deployment wit	h Bridge/Poutir	a/NAT Support [/802 3ad/GPE/P	IPv1/RIPv2/OSPF
Outbound LB	Auto/manually	distribute oubc	ound connection	ns to WANs by we	ight, least conn	ections, availabl	e up/dw bandw	IP/subnet/FQDN. idth, link quality
Outbound fail-over				n the same tier w				
Inbound fail-over				Ps of backup WAN				1.66
Inbound LB				n 500 domains/se				
(Mutihoming)		eignt, available	panawidth, leas	st connections, lir	ik quality. I I Ls c	an be configure	eu to quickly res	pona to service
Disactor Deserver	distuption	ather IDC 1 - DC	10.16	alla Autori	. fuere all - · ·	finalin IDC 1 1	al. a.a. 4	
Disaster Recovery				ails. Auto recover	/			la agencera
Persistent Route VPN				<u>ticky to the same</u> onnect branch off				D Servers
SD-WAN				Itiple cheap WAN				costs
Policy Route				ards specific publ				
NAT				iles to share publi				IC WAINS
Virtual Server						to NAT policy it	1105	
				raffic to cortain ID				
Link Health Check				raffic to certain IP		igrate traffic to	other stable link	kc
Link Health Check	Monitor WAN	ink quality acco	rding to config	urable loss rate a	nd manage to m			
Link Health Check Server LB	Monitor WAN Load balance t	link quality acco raffic towards se	rding to config erver according	urable loss rate a to URL/Header/C	nd manage to m ookie/FileType/	FileName, and e	execute insert/re	emove/modify
	Monitor WAN Load balance t layer-7 conten	ink quality acco raffic towards se t filter/rewrite. S	rding to config erver according upport method	urable loss rate a to URL/Header/C	nd manage to m ookie/FileType/	FileName, and e	execute insert/re	
	Monitor WAN Load balance t layer-7 content desitination UF	link quality acco raffic towards se t filter/rewrite. S RL / SSL session	rding to config erver according upport method ID	urable loss rate an to URL/Header/C ls of weighted rou	nd manage to m ookie/FileType/ Ind-robin, least	FileName, and e connections. Pe	execute insert/re rsistence suppo	emove/modify rt cookie / source ,
Server LB	Monitor WAN Load balance t layer-7 content desitination UF Support L3(IP)	link quality acco raffic towards se t filter/rewrite. S RL / SSL session / L4(port) / L7(a	rding to config erver according upport method ID pp) health chec	urable loss rate a to URL/Header/C	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS	FileName, and e connections. Pe _/LDAP/MySQL/	execute insert/re rsistence suppo	emove/modify rt cookie / source ,
Server LB	Monitor WAN Load balance t layer-7 content desitination UF Support L3(IP)	link quality acco raffic towards se t filter/rewrite. S RL / SSL session / L4(port) / L7(a	rding to config erver according upport method ID pp) health chec	urable loss rate an to URL/Header/C ls of weighted rou ck methods with b	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS	FileName, and e connections. Pe _/LDAP/MySQL/	execute insert/re rsistence suppo	emove/modify rt cookie / source ,
Server LB Server Health Check	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined	link quality acco raffic towards se t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co	rding to config erver according upport method ID pp) health cheo ntent inspectio	urable loss rate an to URL/Header/C ls of weighted rou ck methods with b	nd manage to m ookie/FileType/ Ind-robin, least built-in HTTP/SS ur own health cl	FileName, and e connections. Pe _/LDAP/MySQL/ necks	execute insert/re rsistence suppo /PgSQL/Redis/St	emove/modify rt cookie / source ,
Server LB Server Health Check Management	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP	link quality acco raffic towards set t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod	urable loss rate a to URL/Header/C ls of weighted rou ck methods with b n for scripting yo	nd manage to m ookie/FileType/ ind-robin, least built-in HTTP/SS ur own health cl disruption duri	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail	execute insert/re rsistence suppo /PgSQL/Redis/St lure	emove/modify rt cookie / source , MTP/Proxy/
Server LB Server Health Check Management High Availability	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support https/ Support anti-D	ink quality acco raffic towards set t filter/rewrite. S L / SSL session / L4(port) / L7(a Send/Expect co to work in Activithttp/SSH/SNMF PoS by SYN-Prox	rding to config erver according upport method ID pp) health chee ntent inspectio e-Standby mod //Console for m y or thresholds	urable loss rate a to URL/Header/C ls of weighted rou ck methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc	nd manage to m ookie/FileType/ Ind-robin, least uuilt-in HTTP/SS ur own health cl disruption duri oort role manage nds to filter der	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support https/ Support anti-D	ink quality acco raffic towards set t filter/rewrite. S L / SSL session / L4(port) / L7(a Send/Expect co to work in Activithttp/SSH/SNMF PoS by SYN-Prox	rding to config erver according upport method ID pp) health chee ntent inspectio e-Standby mod //Console for m y or thresholds	urable loss rate al to URL/Header/C ls of weighted rou ck methods with b n for scripting yo e to avoid service anagement. Supp	nd manage to m ookie/FileType/ Ind-robin, least uuilt-in HTTP/SS ur own health cl disruption duri oort role manage nds to filter der	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support NtRps/ Support https/ Support anti-D Support email	ink quality acco raffic towards set t filter/rewrite. S &L / SSL session / L4(port) / L7(a Send/Expect co to work in Activi- http/SSH/SNMF POS by SYN-Prox alerts if WAN lir	rding to config erver according upport method ID pp) health chee ntent inspectio e-Standby mod //Console for m y or thresholds iks are down or	urable loss rate a to URL/Header/C ls of weighted rou ck methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security Alert	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support VRRP Support https/ Support anti-C Support email Support realtir	ink quality acco raffic towards set t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF hoS by SYN-Prox alerts if WAN lir ne monitoring o	rding to config erver according upport method ID pp) health chee ntent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN lini	urable loss rate a to URL/Header/C ls of weighted rou ck methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup	nd manage to m ookie/FileType/ ind-robin, least uuilt-in HTTP/SS ur own health ch disruption duri port role manage inds to filter der port SNMP trap s	FileName, and e connections. Pe /LDAP/MySQL/ necks mg hardware fail ment with diffe ial of service at and syslog to of	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support VRRP Support https/ Support anti-C Support email Support realtir	ink quality acco raffic towards set t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF hoS by SYN-Prox alerts if WAN lir ne monitoring o	rding to config erver according upport method ID pp) health chee ntent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN lini	urable loss rate a to URL/Header/C ls of weighted rou ck methods with k n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log	nd manage to m ookie/FileType/ ind-robin, least uuilt-in HTTP/SS ur own health ch disruption duri port role manage inds to filter der port SNMP trap s	FileName, and e connections. Pe /LDAP/MySQL/ necks mg hardware fail ment with diffe ial of service at and syslog to of	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support Nttps/ Support anti-C Support anti-C Support realtin Support IPv4 to	ink quality acco raffic towards set t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF hoS by SYN-Prox alerts if WAN lir ne monitoring o	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN link ceroute/ping/ns	urable loss rate a to URL/Header/C ls of weighted rou k methods with k n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log lookup and IPv6	nd manage to m ookie/FileType/ ind-robin, least uuilt-in HTTP/SS ur own health ch disruption duri port role manage inds to filter der port SNMP trap s	FileName, and e connections. Pe /LDAP/MySQL/ necks mg hardware fail ment with diffe ial of service at and syslog to of	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool	Monitor WAN Load balance t layer-7 conten Gsupport L3(IP) or self-defined Support VRRP Support Nttps/ Support anti-C Support email Support realtin Support IPv4 to This add-on bo	ink quality acco raffic towards se t filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF hoS by SYN-Prox alerts if WAN lir ne monitoring o pools such as trac	rding to config erver according upport method ID pp) health cheo netent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN link ceroute/ping/ns e application qo	urable loss rate a to URL/Header/C ls of weighted rou k methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log lookup and IPv6	nd manage to m ookie/FileType/ ind-robin, least uuilt-in HTTP/SS ur own health ch disruption duri port role manage inds to filter der port SNMP trap s	FileName, and e connections. Pe /LDAP/MySQL/ necks mg hardware fail ment with diffe ial of service at and syslog to of	execute insert/re rsistence suppo /PgSQL/Redis/St // lure rence self-defin tacks	emove/modify rt cookie / source , MTP/Proxy/ ed accounts
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option)	Monitor WAN Load balance t layer-7 content desitination Uf Support L3(IP) or self-defined Support VRRP Support NtRps/ Support anti-E Support email Support realtin Support IPv4 to This add-on bo Support auto u	ink quality acco raffic towards set f filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o pools such as trac pard can enhanc update of follow	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qu ing protocols (3	urable loss rate a to URL/Header/C ls of weighted rou k methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log lookup and IPv6	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE	execute insert/re rsistence suppo /PgSQL/Redis/SI lure erence self-defin tacks ther 3rd-party sy	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support NRRP Support anti-D Support email Support realtir Support IPv4 tu This add-on bo Support auto u Line/QQ/AliWa	ink quality acco raffic towards set f filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF toS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac ward can enhanc update of follow ingWang/Fetion	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qu ing protocols (3 /Dushow/Popo,	urable loss rate a to URL/Header/C ls of weighted rou ck methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log slookup and IPv6	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava	Presecute insert/re rsistence suppo (PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern	Monitor WAN Load balance t layer-7 conten desitination UF Support L3(IP) or self-defined Support VRRP Support NRRP Support anti-D Support email Support realtir Support IPv4 to This add-on bo Support auto u Line/QQ/AliWa Xunlei/Thunde	ink quality acco raffic towards set filter/rewrite. S RL / SL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF DOS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhanc update of follow ingWang/Fetion r/WebThunder/i	rding to config erver according upport method ID pp) health chec e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN link ceroute/ping/ns e application qq ing protocols (3 /Dushow/Popo, FlashGet/BT/eD	urable loss rate a to URL/Header/C ls of weighted rou k methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup sand history log slookup and IPv6 os 0000+ apps) /SinaUC/Skype/Ya	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri oort role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPe	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo	Presecute insert/re rsistence suppo /PgSQL/Redis/Sf lure rrence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You,	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat	Monitor WAN Load balance t layer-7 content desitination UF Support L3(IP) or self-defined Support VRRP Support https/ Support anti-D Support email Support realtin Support IPv4 to This add-on bo Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo	ink quality acco raffic towards set t filter/rewrite. S &L / SSL session / L4(port) / L7(a Send/Expect co to work in Activi- to work in Activi- http/SSH/SNMF boS by SYN-Prox alerts if WAN lir me monitoring o bols such as trac bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh,	rding to config erver according upport method ID pp) health chec meter inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 //Dushow/Popo, FlashGet/BT/eD //Gnutella/WinW	urable loss rate a to URL/Header/C ls of weighted rou k methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup slookup and IPv6 bs 1000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eMu	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSi ur own health ch disruption duri oort role manage nds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPer reaza/Morpheus	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo s/Gnucleus/Kug	Preserved insert/re rsistence suppo PgSQL/Redis/St lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH psy/Poco/Fs2You, oo/Pigo/dc++/2	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P	Monitor WAN Load balance t layer-7 contem desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-D Support realtir Support realtir Support IPv4 tr This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF toS by SYN-Prox alerts if WAN lir ne monitoring o bols such as trac pard can enhanc update of followin r/WebThunder// gy /Ares /iMesh, a / GoogleMeet /	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds ks are down or f WAN/VPN linl eroute/ping/ns e application qo ing protocols (3 //Dushow/Poog) /lashGet/BT/eD /Gnutella/WinM / Skype/Polycor	urable loss rate a to URL/Header/C ls of weighted rou k methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log lookup and IPv6 os 1000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eMu IX/Bearshare/Sha	nd manage to m ookie/FileType/ ind-robin, least uitt-in HTTP/SS ur own health cl disruption duri oort role manage inds to filter der port SNMP trap s stoos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha	FileName, and e connections. Pe ./LDAP/MySQL/ necks ing hardware fail ment with diffe ial of service at and syslog to of r/NDE abber/LavaLava ser/Kuro/ClubBo s/Gnucleus/Kug at/SIP/TeITeI/H.3	/PgSQL/Redis/St /PgSQL/Redis/St lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH xx/Poco/Fs2You, oo/Pigo/dc++/?	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support anti-E Support anti-E Support email Support realtin Support IPv4 to This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o bools such as trace bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh , / GoogleMeet / reedom/Garden /PPfilm /PPlive /	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real	urable loss rate a to URL/Header/C ls of weighted rou ck methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log clookup and IPv6 cos cos cos conception of the service cos conception of the service cos cos conception of the service cos cos cos cos cos cos cos cos cos cos	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPe reaza/Morpheu eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout	FileName, and e connections. Pe _/LDAP/MySQL/ necks mg hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava abber/LavaLava g/Gnucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate cast /Winamp /	/PgSQL/Redis/SI /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH /SA/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support Nttps/ Support anti-E Support email Support realtin Support IPv4 to This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagg /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf	ink quality acco raffic towards set f filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin ne monitoring o pools such as trac pard can enhanc update of follow ungWang/Fetion r/WebThunder// gy / GoogleMeet , reedom/Garden, /PPfilm / PPlive / lix / Disney+ / D	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qu ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/Wink / Skype/Polycor /Gpass/Tor/Htt _l PPstream /Real pailymotion / SS	urable loss rate a to URL/Header/C ls of weighted rou ck methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log clookup and IPv6 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSi ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPer reaza/Morphelich cout/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout / /3TV /Phoenix	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBc s/Gnucleus/Kug th/SIP/TeITeI/H.2 Ether/FreeGate, cast /Winamp / TV /YahooMusic	Presecute insert/re rsistence suppo (PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/2 323 /Wujie/ Live365 /Radio3	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support Nttps/ Support anti-C Support email Support realtin Support realtin This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagba /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee , Youtube / Netf Citrix /MySQL	ink quality acco raffic towards set f filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bols such as trac pard can enhanc update of follow ungWang/Fetion r/WebThunder// gy / GrosgleMeet / coogleMeet / Pffilm /PPlive / lix / Disney+ / D /Notes /Oracle /	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN links er application qu ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnuse/Tor/Htt PPstream /Real ailymotion / SS MSSQL /RDP /M	urable loss rate a to URL/Header/C ls of weighted rou ck methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log slookup and IPv6 (s and history log slookup and log s	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSI ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus aunnel/Vnn/Soft e /KKBox /Shout / /3TV /Phoenix'	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of f/NDE abber/LavaLava eer/Kuro/ClubBo /Gnucleus/Kug at/SIP/TeITeI/H. Ether/FreeGate cast /Winamp / TV /YahooMusic /Telnet /SSH /1	Presecute insert/re rsistence suppo (PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 //MMS /SeeTV / feamViewer /Log	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer	Monitor WAN Load balance t layer-7 conten desitination UI Support L3(IP) or self-defined Support VRRP Support NRRP Support anti-D Support email Support realtin Support IPv4 tt This add-on bo Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee Youtube / Netf Citrix /MySQL SkypeFile / Lin	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi- to work in Activi- http/SSH/SNMF DOS by SYN-Prox alerts if WAN lir ne monitoring o Dools such as trac pard can enhance update of follow- ngWang/Fetion r/WebThunder// gy /Ares /iMesh, / GoogleMeet / meedom/Gardender /Igr /PPfilm /PPlive / lix / Disney + / D /Notes /Oracle / eFile / SMB / FTI	rding to config erver according upport method ID pp) health chec e-standby mod P/Console for m y or thresholds iks are down or f WAN/VPN linh eroute/ping/ns e application qq ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real ailymotion / SS MSSQL /RDP /V P / OneDrive / C	urable loss rate a to URL/Header/C ls of weighted rou k methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup sand history log clookup and IPv6 bs 0000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eMu M/Bearshare/Sha m/RTP/RTCP/Skyp pTunnel/JAP/Real Player /QuickTim TV /MeteorNetTY /NC /UItraVNC /V GoogleDriveUp / I	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSI ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPe reaza/Morpheu: eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout / /3TV /Phoenix /in /PcAnywhere Dropbox / AsusV	FileName, and e connections. Pe ./LDAP/MySQL/ necks ing hardware fail ment with diffe ial of service at and syslog to or f/NDE abber/LavaLava eer/Kuro/ClubBo s/Gnucleus/Kug tt/SIP/TeITeI/H.3 Ether/FreeGat cast /Winamp / TV /YahooMusic /TeInet /SSH /T /ebStorage / As	Presecute insert/re rsistence suppo (PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 //MMS /SeeTV / feamViewer /Log	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock	Monitor WAN Load balance t layer-7 contem desitination Uf Support L3(IP) or self-defined Support NRP Support ntti-D Support anti-D Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL, SkypeFile / Lin HuaTai/Tazihue	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhance update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, a / GoogleMeet / reedom/Garden //Pfilm /PPlive / Lix / Disney + / D //Notes /Oracle / eFile / SMB / FTI a/TungHuaShue	rding to config erver according upport method ID pp) health cheo intent inspection e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN linl eroute/ping/ns e application q ing protocols (3 /Dushow/Poolycor /Gpass/Tor/Htt PPstream /Real ailymotion / SS MSSQL /RDP / 2 / OneDrive / C n/Tienl/FenShid	urable loss rate a to URL/Header/C ls of weighted rou is of weighted rou is methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Supp slookup and lPv6 bs 1000+ apps) /SinaUC/Skype/Yo onkey/eD2K/eMu tX/Bearshare/Sha n/RTP/RTCP/Skyp pTunnel/JAP/Real Player /QuickTim TV /MeteorNetTV /NC /UItraVNC /V GoogleDriveUp / I Chia/StockStar/Za	nd manage to m ookie/FileType/ ind-robin, least uitt-in HTTP/SS ur own health ch disruption duri oort role manage nds to filter der oort SNMP trap s toos such as NB s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix / in /PcAnywhere Propbox / AsusV oZang/AnShin/S	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo ;/Gnucleus/Kug tt/SIP/Tel/H.3 Ether/FreeGate cast /Winamp / T/ YahooMusic /Telnet /SSH /T /ebStorage / As SkyNet	execute insert/re rsistence suppo /PgSQL/Redis/Sf lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH bx/Poco/Fs2You, oo/Pigo/dc++/: 223 /Wujie/ Live365 /Radio3 :/MMS /SeeTV / feamViewer /Log pera /	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao 65/PPTV/ /QQlive /QQmusic gmein
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game	Monitor WAN Load balance t layer-7 contem desitination Uf Support L3(IP) or self-defined Support NRP Support ntti-D Support anti-D Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL, SkypeFile / Lin HuaTai/Tazihue	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhance update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, a / GoogleMeet / reedom/Garden //Pfilm /PPlive / Lix / Disney + / D (Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue	rding to config erver according upport method ID pp) health cheo intent inspection e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN linl eroute/ping/ns e application q ing protocols (3 /Dushow/Poolycor /Gpass/Tor/Htt PPstream /Real ailymotion / SS MSSQL /RDP / 2 / OneDrive / C n/Tienl/FenShid	urable loss rate a to URL/Header/C ls of weighted rou k methods with b n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup sand history log clookup and IPv6 bs 0000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eMu M/Bearshare/Sha m/RTP/RTCP/Skyp pTunnel/JAP/Real Player /QuickTim TV /MeteorNetTY /NC /UItraVNC /V GoogleDriveUp / I	nd manage to m ookie/FileType/ ind-robin, least uitt-in HTTP/SS ur own health ch disruption duri oort role manage nds to filter der oort SNMP trap s toos such as NB s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix / in /PcAnywhere Propbox / AsusV oZang/AnShin/S	FileName, and e connections. Pe _/LDAP/MySQL/ necks ng hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo ;/Gnucleus/Kug tt/SIP/Tel/H.3 Ether/FreeGate cast /Winamp / T/ YahooMusic /Telnet /SSH /T /ebStorage / As SkyNet	execute insert/re rsistence suppo /PgSQL/Redis/Sf lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH bx/Poco/Fs2You, oo/Pigo/dc++/: 223 /Wujie/ Live365 /Radio3 :/MMS /SeeTV / feamViewer /Log pera /	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao 65/PPTV/ /QQlive /QQmusic gmein
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers	Monitor WAN Load balance t layer-7 conteni Gesitination Uf Support L3(IP) or self-defined Support VRRP Support anti-C Support	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac board can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, / GoogleMeet , reedom/Garden /PPfilm /PPlive / lix / Disney+ / D 'Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo FlashGet/BT/eD //Gnutella/WinM / Skype/Polycor //Gpass/Tor/Http PPstream /Real ailymotion / SS MSSQL /RDP // P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc	urable loss rate a to URL/Header/C ls of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log lookup and IPV6 (s and history log lookup and log lookup	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPer reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix /in /PcAnywhere Dropbox / AsusV oZang/AnShin/s	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of /NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE //NDE	vecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH /Gadu/GoogleH /Syloco/Fs2You, oo/Pigo/dc++/2 323 /Wujie/ Live365 /Radio3 ./MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein ge/
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool oS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-C Support anti-C Support email Support realtin Support IPv4 to This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o pools such as trac bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, / GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real bailymotion / SS MSSQL /RDP / P OneDrive / C n/Tienl/FenShic HuaShiYo/Danc	urable loss rate a to URL/Header/C ls of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log lookup and IPV6 (s and history log lookup a	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPe reaza/Morpheu e/Out/Eyeballch/ Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix' /in /PcAnywhere Dropbox / AsusV oZang/AnShin/S i/CadinCar/Mira are Patrol / Fireh	FileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/Cluba (Gnucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate cast /Winamp / TV /YahooMusic /Telnet /SSH /TI /ebStorage / As SkyNet cleWorld/Fight/	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/? 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac s / NCCST / F-IS.	emove/modify rt cookie / source / MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL /
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-C Support anti-C Support email Support realtin Support IPv4 to This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o pools such as trac bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, / GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real bailymotion / SS MSSQL /RDP / P OneDrive / C n/Tienl/FenShic HuaShiYo/Danc	urable loss rate a to URL/Header/C ls of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log lookup and IPV6 (s and history log lookup and log lookup	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheu e/Out/Eyeballch/ Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix' /in /PcAnywhere Dropbox / AsusV oZang/AnShin/S i/CadinCar/Mira are Patrol / Fireh	FileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/Cluba (Gnucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate cast /Winamp / TV /YahooMusic /Telnet /SSH /TI /ebStorage / As SkyNet cleWorld/Fight/	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/? 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac s / NCCST / F-IS.	emove/modify rt cookie / source / MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL /
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support Nttps/ Support anti-E Support email Support email Support realtir Support IPv4 tr This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin ne monitoring o bols such as trac pard can enhanc update of follow ungWang/Fetion r/WebThunder// gy / GoogleMeet, reedom/Garden, /PPfilm / PPlive / Lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN linhs er application qu ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnuse/Tor/Htt /Pstream /Real bailymotion / SS MSSQL /RDP /Y P / OneDrive / C n/Tienl/FenShid HuashiYo/Danc stTotal.com wh-	urable loss rate a to URL/Header/C ls of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log ilookup and IPv6 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSI ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB' ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheul eout/Eyeballche cout/Eyeballche cout/Eyeballche cout/Sofut / /3TV /Phoenix' /in /PcAnywhere Dropbox / AsusV oZang/AnShin/' i/CadinCar/Mira are Patrol / FireF to stop Bot con	FileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/Cluba (Gnucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate cast /Winamp / TV /YahooMusic /Telnet /SSH /TI /ebStorage / As SkyNet cleWorld/Fight/	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/? 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac s / NCCST / F-IS.	emove/modify rt cookie / source / MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL /
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Auto update Auto update	Monitor WAN Load balance t layer-7 contem desitination Uf Support L3(IP) or self-defined Support NRP Support https/ Support anti-D Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto u Support 80/44	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF toS by SYN-Prox alerts if WAN lir ne monitoring o bols such as trac pard can enhanc update of following gy Ares /iMesh, a / GoogleMeet / reedom/Garden /PFilm /PPlive / lix / Disney + / D ki / Cosel / FTI ei/TungHuaShue ounterStrike/Da update to Blackli ng traffic toward 3 and other por	rding to config erver according upport method ID pp) health cheo intent inspection e-Standby mod //Console for m y or thresholds ks are down or f WAN/VPN linl eroute/ping/ns e application qq ing protocols (3 //Dushow/Poolycor //Dushow/Poolycor //Dushow/Polycor //Gpass/Tor/Http PPstream /Real Pailymotion / SS MSSQL /RDP //D / OneDrive / C n/Tienl/FenShi(HuaShiYo/Dance stTotal.com whi ds IPs listed in E	urable loss rate a to URL/Header/C ls of weighted rou ik methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (ss and history log lookup and IPv6 b) (SinaUC/Skype/Ya onkey/eD2K/eMu (X/Bearshare/Sha m/RTP/RTCP/Skyp porunnel/JAP/Real Player /QuickTim TV /MeteorNetTV /NC /UltraVNC /V GoogleDriveUp / I Chia/StockStar/Za e/WarCraft/MoYu o integrate Malwa BlacklistTotal.com	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB s ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix //and /PAnywhere Dropbox / AsusV oZang/AnShin/s i/CadinCar/Mira are Patrol / FireH to stop Bot con	FileName, and e connections. Pe connections. Pe ng hardware fail ment with diffe ial of service at and syslog to or f/NDE abber/LavaLava eer/Kuro/ClubBo s/Gnucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGat Cast /Winamp / TV /YahooMusic /Telnet /SSH /TI /ebStorage / As SkyNet cleWorld/Fight/ IOL / Cisco Talos trolled by malw.	execute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH bx/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wuje/ Live365 /Radio3 /Wuje/ Live365 /Radio3 /MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS: are / ramsonwar	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao 65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database Auto update URL Database	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support ntti-D Support anti-D Support realtir Support realtir Support IPV4 tr This add-on bc Support auto L Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee , Youtube / Netff Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto L Support 80/44 Support 70 + c	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF to Sby SYN-Prox alerts if WAN lir ne monitoring o pools such as trac oard can enhanc update of following magWang/Fetion ngWang/Fetion /WebThunder// gy/Ares /iMesh, / GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D /Notes /Oracle / eFile / SMB / FTI si/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN linl eroute/ping/ns e application qo ing protocols (3) //Dushow/Pooyco lashGet/BT/eD //Gnutella/WinM / Skype/Polycor /Gpass/Tor/Http PPstream /Real ailymotion / SS MSSQL /RDP /N 2 / OneDrive / C n,/Tienl/FenShid HuaShiYo/Danc stTotal.com wh- ds IPs listed in E ts of http(s) for ing Porn/Ads/G	urable loss rate a to URL/Header/C ls of weighted rou- ik methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup ks and history log lookup and IPv6 lookup a	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix' /in /PcAnywhere Jorpbox / AsusV oZang/AnShin/S u/CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of //NDE //NDE //NDE //NDE //NDE //Conucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate, cast /Winamp / //YahooMusic //Telnet /SSH /T /Telnet /SSH /T /Telnet /SSH /T /Conucleus/Kug trolled by malw.	execute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH bs/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 //MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support ntti-D Support anti-D Support realtir Support realtir Support IPV4 tr This add-on bc Support auto L Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee , Youtube / Netff Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto L Support 80/44 Support 70 + c	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF to Sby SYN-Prox alerts if WAN lir ne monitoring o pools such as trac oard can enhanc update of following magWang/Fetion ngWang/Fetion /WebThunder// gy/Ares /iMesh, / GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI si/TungHuaShue ounterStrike/Da	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN linl eroute/ping/ns e application qo ing protocols (3) //Dushow/Pooyco lashGet/BT/eD //Gnutella/WinM / Skype/Polycor /Gpass/Tor/Http PPstream /Real ailymotion / SS MSSQL /RDP /N 2 / OneDrive / C n,/Tienl/FenShid HuaShiYo/Danc stTotal.com wh- ds IPs listed in E ts of http(s) for ing Porn/Ads/G	urable loss rate a to URL/Header/C ls of weighted rou ik methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (ss and history log lookup and IPv6 b) (SinaUC/Skype/Ya onkey/eD2K/eMu (X/Bearshare/Sha m/RTP/RTCP/Skyp porunnel/JAP/Real Player /QuickTim TV /MeteorNetTV /NC /UltraVNC /V GoogleDriveUp / I Chia/StockStar/Za e/WarCraft/MoYu o integrate Malwa BlacklistTotal.com	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix' /in /PcAnywhere Jorpbox / AsusV oZang/AnShin/S u/CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of //NDE //NDE //NDE //NDE //NDE //Conucleus/Kug tt/SIP/TelTel/H.3 Ether/FreeGate, cast /Winamp / //YahooMusic //Telnet /SSH /T /Telnet /SSH /T /Telnet /SSH /T /Conucleus/Kug trolled by malw.	execute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH bs/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 //MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category QoS	Monitor WAN Load balance t layer-7 conteni Gestination Uf Support L3(IP) or self-defined Support VRRP Support anti-C Support anti-C Support anti-C Support realtin Support realtin Support realtin Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL / SkypeFile / Lin HuaTai/Tazhue Diablo3/LoL/C Support auto u Support 80/44 Support self-d	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activ/ http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac board can enhanc update of follow angWang/Fetion /WebThunder// gy /Ares /iMesh, / GoogleMeet , reedom/Garden /PPfilm /PPlive / lix / Disney+ / D Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da update to Blackli ng traffic toward 3 and other port ategories includ efined keywords	rding to config erver according upport method ID pp) health cheo e-standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo FlashGet/BT/eD /Gnutella/WinM ' Skype/Polycor /Gpass/Tor/Http PPstream /Real vallymotion / SS MSSQL /RDP /V P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate	urable loss rate a to URL/Header/C ls of weighted rou- is of weighted rou- is an agement supp of limits per secc HA triggers. Supp (s and history log lookup and lPV6 (s and log lookup and lPV6 (s and log lookup and lPV6 (s and l	nd manage to m ookie/FileType/ ind-robin, least built-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //cadinCar/Mira are Patrol / Firef- to stop Bot con y auto updates a/Stock/News/G with IP/subnet/a	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of C/NDE Abber/LavaLava eer/Kuro/Cluba G/Gnucleus/Kug tt/SIP/TeTeI/H.3 Ether/FreeGate, cast /Winamp / TV /YahooMusic /Telnet /SSH /I /ebStorage / As SkyNet CleWorld/Fight/ OL / Cisco Talo: trolled by malwa ame/Comic/Cha pp to assign tra	execute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH /Gadu/GoogleH /Syley (Secord) /Mos/Secord) /Wujie/ Live365 /Radio3 ./MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS, are / ramsonwar ats/Jokes/Hacke affic into QoS ch	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database Auto update URL Database Auto update URL Database QoS by Category QoS Bidirectional QoS	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support nttps/ Support anti-C Support Auto-C Support anti-C Support anti-C Support anti-C Support 80/44 Support 20-C Support 20-S p	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o pools such as trace bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, ./ GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da update to Blackli ing traffic toward 3 and other porr ategories includ efined keywords rofiles for In/Ou	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN link eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real bailymotion / SS MSSQL /RDP // P / OneDrive / C n/TienI/FenShid HuaShiYo/Danc stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate	urable loss rate a to URL/Header/C ls of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log lookup and lPv6 (s and history log lookup and lPv6 (s and history log slookup and lPv6 (s and history log lookup and lPv6 (s and history log lookup and lPv6 (s and history log slookup and lP	nd manage to m ookie/FileType/ ind-robin, least built-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //aTV /Phoenix //cadinCar/Mira are Patrol / Firef- to stop Bot con y auto updates a/Stock/News/G with IP/subnet/a	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of C/NDE Abber/LavaLava eer/Kuro/Cluba G/Gnucleus/Kug tt/SIP/TeTeI/H.3 Ether/FreeGate, cast /Winamp / TV /YahooMusic /Telnet /SSH /I /ebStorage / As SkyNet CleWorld/Fight/ OL / Cisco Talo: trolled by malwa ame/Comic/Cha pp to assign tra	execute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH /Gadu/GoogleH /Syley (Second) /Magazet /Wujie/ Live365 /Radio3 ./MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS, are / ramsonwar ats/Jokes/Hacke affic into QoS ch	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao /65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Auto update URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support anti-E Support anti-E Youtout anti-E Youtout anti-E Youtout anti-E Youtout anti-E Youtout anti-E Youtout anti-E Support anti-E Support anti-E Support anti-E Support 80/44 Support 20-4 Support anti-E Support differed	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activi http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o bools such as trac board can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesThunder// gy /Ares /iMesThunder/ gy /Ares /iMesT	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN links eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD gallymotion / SS MSSQL /RDP / P / OneDrive / C n/Tienl/FenShic HuaShiYo/Danc stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate th bandwidth pa for different sc	urable loss rate a to URL/Header/C ls of weighted rou is of weighted rou is for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log lookup and IPv6 (s and history log (s and history log so (s and history log (s and history l	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SSi ur own health cl disruption duri port role manage inds to filter den port SNMP trap s toos such as NB ahoo/AOL/ICQ/J lle/Overnet/EzPer reaza/Morphech eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout / /3TV /Phoenix' /in /PcAnywhere Dropbox / AsusV oZang/AnShin/Si i/CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates e/Stock/News/G with IP/subnet/ar	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBc s/Gnucleus/Kug at/SIP/TelTel/H.3 Ether/FreeGate, cast /Winamp / TV /YahooMusic /Telnet /SSH /T /ebStorage / As SkyNet cleWorld/Fight/ OL / Cisco Talo: trolled by malw ame/Comic/Cha pp to assign tra- pr rules to assig	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH xy/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Auto update URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee Rate/#Session/Quota	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support NRP Support ntti-D Support email Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto u Support docki Support 205 p Support QS p Support dynam	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF boS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhance update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, c / GoogleMeet / reedom/Garden /PPfilm /PPlive / Lix / Disney + / D /Notes /Oracle / eFile / SMB / FTI ci/TungHuaShue bounterStrike/Da update to Blackli ng traffic toward 3 and other port ategories includ efined keywords rofiles for In/Ou ent QoS profiles nic bandwidth b	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN linl eroute/ping/ns e application qc ing protocols //Dushow/Polycor //Gpass/Tor/Htt PPstream /Real aailymotion / SS MSSQL /RDP // P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc stTotal.com wh ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate th bandwidth pa for different sc orrowing (max	urable loss rate and to URL/Header/Cl s of weighted rou- s of weighted rou- ck methods with E n for scripting yo- e to avoid service anagement. Supp of limits per secc HA triggers. Supp stookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 slookup and IPv6 bs slookup and IPv6 slookup	nd manage to m ookie/FileType/ ind-robin, least uilt-in HTTP/SS ur own health cl disruption duri oort role manage nds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout / /3TV /Phoenixi //GadinCar/Mira are Patrol / FireF to stop Bot con y auto updates e/Stock/News/G with IP/subnet/a llti-level pipes f min rate), intra C	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava ter/Kuro/ClubBc C/Gnucleus/Kug at/SIP/TeITeI/H. Ether/FreeGate, cast /Winamp / TV /YahooMusic /TeInet /SSH /TI /ebStorage / As SkyNet cleWorld/Fight/ OL / Cisco Talo: trolled by malw. ame/Comic/Cha pp to assign tra- por rules to assig QOS pipe session	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH xy/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic	emove/modify rt cookie / source MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Auto update URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support NRP Support https/ Support natti-D Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtbe / Neff Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto u Support auto u Support 80/44 Support dynam Support dynam Support dynam	ink quality acco raffic towards set filter/rewrite. S RL / SL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF ioS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhanc update of following mgWang/Feito and can enhanc r/WebThunder// gy /Ares /iMesh, a / GoogleMeet / reedom/Garden /PFilm /PPlive / lix / Disney+ / D iv/TungHuaShue ounterStrike/Da and other port ategories includ efined keywords rofiles for In/Ou ent QoS profiles nic bandwidth b tr-based rate/vo	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds ks are down or f WAN/VPN linl eroute/ping/ns e application qq ing protocols (3) //Dushow/Pooy flashGet/BT/eD //Gnutella/WinM / Skype/Polycor //Gpass/Tor/Http PPstream /Real Dailymotion / Sy MSSQL /RDP //D / OneDrive / C n/TienI/FenShi(HuaShiYo/Dance stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate the bandwidth pa for different sc orrowing (max i lume limiting an	urable loss rate a to URL/Header/C ls of weighted rou- ck methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (ss and history log lookup and IPv6 bos 000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eMu 4X/Bearshare/Sha m/RTP/RTCP/Skyp porunnel/JAP/Real Player /QuickTim TV /MeteorNetTV /NC /UltraVNC /V GoogleDriveUp / I Chia/StockStar/Za e/WarCraft/MoYu o integrate Malwa BlacklistTotal.com filtering with dail ambling/Violence cgories, together rritioning into me hedule periods rate), guarantee (nd provide portal	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB s ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix / /2TV /Phoenix / CadinCar/Mira are Patrol / FireH to stop Bot con y auto updates e/Stock/News/G with IP/subnet/a ulti-level pipes fi- min rate), intra C s for status check	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava ter/Kuro/ClubBo ter/Kuro/ClubBo ist/SIP/TeITeI/H.3 Ether/FreeGate, cast /Winamp / T/YahooMusic Cast /Winamp / T/YahooMusic Cast /Winamp / T/YahooMusic Cast /Winamp / T/Pinet /SSH / /ebStorage / As SkyNet cleWorld/Fight/ OL / Cisco Talo: trolled by malw. ame/Comic/Cha pp to assign tra- pr rules to assign QoS pipe session k by users	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH xy/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein de/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee Rate/#Session/Quota 2-Level Punishment	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support NRP Support https/ Support natti-D Support realtir Support realtir Support realtir Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtbe / Neff Citrix /MySQL SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support auto u Support auto u Support 80/44 Support dynam Support dynam Support dynam	ink quality acco raffic towards set filter/rewrite. S RL / SL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF ioS by SYN-Prox alerts if WAN lir ne monitoring o bools such as trac pard can enhanc update of following mgWang/Feitowang/Feitowang/ ard can enhanc update of following y Ares / iMesh, a / GoogleMeet / reedom/Garden /PFilm /PPlive / lix / Disney+ / D ix / Disney+ / D ix / Disney+ / D ito SMB / FTI ei/TungHuaShue ounterStrike/Da and other port ategories includ efined keywords rofiles for In/Ou ent QoS profiles nic bandwidth b tr-based rate/vo	rding to config erver according upport method ID pp) health cheo intent inspectio e-Standby mod //Console for m y or thresholds ks are down or f WAN/VPN linl eroute/ping/ns e application qq ing protocols (3) //Dushow/Pooy flashGet/BT/eD //Gnutella/WinM / Skype/Polycor //Gpass/Tor/Http PPstream /Real Dailymotion / SS MSSQL /RDP //D 2 / OneDrive / C n/TienI/FenShi(HuaShiYo/Dance stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate th bandwidth pa for different sc orrowing (max i lume limiting an	urable loss rate and to URL/Header/Cl s of weighted rou- s of weighted rou- ck methods with E n for scripting yo- e to avoid service anagement. Supp of limits per secc HA triggers. Supp stookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 bs slookup and IPv6 bs source and history log slookup and IPv6 bs slookup and IPv6 slookup and IPv6 bs slookup and IPv6 slookup	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB s ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheus eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix / /2TV /Phoenix / CadinCar/Mira are Patrol / FireH to stop Bot con y auto updates e/Stock/News/G with IP/subnet/a ulti-level pipes fi- min rate), intra C s for status check	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava ter/Kuro/ClubBo ter/Kuro/ClubBo ist/SIP/TeITeI/H.3 Ether/FreeGate, cast /Winamp / T/YahooMusic Cast /Winamp / T/YahooMusic Cast /Winamp / T/YahooMusic Cast /Winamp / T/Pinet /SSH / /ebStorage / As SkyNet cleWorld/Fight/ OL / Cisco Talo: trolled by malw. ame/Comic/Cha pp to assign tra- pr rules to assign QoS pipe session k by users	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH x/Poco/Fs2You, oo/Pigo/dc++/: 323 /Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein de/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee Rate/#Session/Quota 2-Level Punishment Reports	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-C Support anti-C Support realtin Support realtin Support IPv4 to This add-on bc Support auto u Line/QQ/AliWa Xunlei/Thunde Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee / Youtube / Netf Citrix /MySQL / SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/CC Support auto u Support 80/44 Support locki Support differe Support differe Support locki Support dynam	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Active http/SSH/SNMF PoS by SYN-Prox alerts if WAN lir ne monitoring o pools such as trac pard can enhanc update of follow angWang/Fetion /WebThunder// gy /Ares /iMesh, / GoogleMeet , reedom/Garden /PPfilm /PPlive / lix / Disney+ / D /Notes /Oracle / eFile / SMB / FTI ei/TungHuaShue ounterStrike/Da update to Blackli ng traffic towards and other porf ategories includ efined keywords rofiles for In/Ou ent QoS profiles nic bandwidth b re-based rate/vo age alert of run	rding to config erver according upport method ID pp) health chec intent inspectio e-Standby mod //Console for m y or thresholds iks are down or f WAN/VPN lini eroute/ping/ns e application qc ing protocols (3 //Dushow/Popo, FlashGet/BT/eD //Gnutella/WinM ' Skype/Polycor //Gpass/Tor/Htt PPstream /Real ailymotion / SS MSSQL /RDP // P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc stTotal.com whids IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate th bandwidth pa for different sc orrowing (max i lume limiting au ning out of quo	urable loss rate a to URL/Header/C ls of weighted rou- ik methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Supp (s and history log lookup and lPv6 bo 000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eML dX/Bearshare/Sha n/RTP/RTCP/Skyp pTunnel/JAP/Real Player /QuickTim TV /MeteorNetTY /NC /UltraVNC /V GoogleDriveUp / IC Chia/StockStar/Za e/WarCraft/MoVL o integrate Malwa BlacklistTotal.com filtering with dail ambling/Violence gories, together rate), guarantee (in nd provide portal ta and its followin	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheu: eOut/Eyeballcha Tunnel/Vnn/Soff e /KKBox /Shout / /3TV /Phoenix /in /PcAnywhere ozang/AnShin/ //CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates s/Stock/News/G with IP/subnet/a ulti-level pipes fi- min rate), intra Co s for status checo ing rate/session l	FileName, and econnections. Pe C/LDAP/MySQL/ hecks Ing hardware fail ment with diffe ial of service at and syslog to of C/NDE Abber/LavaLava her/Kuro/Cluba t/SIP/TeITeI/H.3 Ether/FreeGate, cast /Winamp / TV /YahooMusic /TeInet /SSH / TA SkyNet CleWorld/Fight/ OL / Cisco Talo: trolled by malwa ame/Comic/Cha pp to assign tra- pp to as	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH /Gadu/GoogleH /Dy/Poco/Fs2You, oo/Pigo/dc++/: 223 /Wujie/ Live365 /Radio3 //MMS /SeeTV / feamViewer /Log pera / /WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic n/IP limits (reser	emove/modify rt cookie / source / MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein ge/ AC / SSLBL / re
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee Rate/#Session/Quota 2-Level Punishment Reports Storage	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-E Support anti-E Vagga /GoBoo WebEx / Teams Hopster/YourF QQTV /UUsee Youtube / Netf Citrix /MySQL, SkypeFile / Lin HuaTai/Tazihue Diablo3/LoL/C Support antio L Support antio L Support self-d Support self-d Support differe Support differe Support lP/use Support lP/use Support Netf	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activ/ http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o bools such as trace bard can enhanc update of follow ingWang/Fetion r/WebThunder/ / AcogleMeet / GoogleMeet / Fredom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI eFile / SMB / FTI eridte to Blackli ing traffic toward a and other porri ategories includ efined keywords rofiles for In/Ou ent QoS profiles nic bandwidth b ir-based rate/vo age alert of rinstallat	rding to config erver according upport method ID pp) health check intent inspectio e-Standby mod P/Console for m y or thresholds iks are down or f WAN/VPN linhs eroute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htty PPstream /Real pailymotion / SS MSSQL /RDP // P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate the bandwidth pa for different sc orrowing (max i lume limiting an ning out of quo ion on Window	urable loss rate a to URL/Header/C ls of weighted rou ck methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Sup (s and history log clookup and lPv6 (s and clookup and lPv6 (s and history log clookup and lPv6 (s and clookup and lPv6	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J ile/Overnet/EzPe eaza/Morpheu eOut/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix /in /PcAnywhere Dropbox / AsusV oZang/AnShin/S i/CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates e/Stock/News/G with IP/subnet/a Jilti-level pipes fi min rate), intra C s for status chec ng rate/session 1	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/K	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/: 323 //Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic n/IP limits (reser 	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein accounts ge/ AC / SSLBL / re r/Phishing/Spywar nannels
Server LB Server Health Check Management High Availability User Interface Security Alert Statistics Debug tool OS Add-on (option) L7 App Pattern Chat P2P VoIP Tunnel Streaming Enterprise File Transfer Stock Game Threat Centers Auto update Anti-Bot Web URL Database QoS by Category QoS Bidirectional QoS Bandwidth Guarantee Rate/#Session/Quota 2-Level Punishment Reports	Monitor WAN Load balance t layer-7 conten desitination Uf Support L3(IP) or self-defined Support VRRP Support https/ Support anti-C Support Altor Support Altor Support Altor Support anti-C Support differe Support lP/use Support New p Database softw	ink quality acco raffic towards set filter/rewrite. S RL / SSL session / L4(port) / L7(a Send/Expect co to work in Activ/ http/SSH/SNMF boS by SYN-Prox alerts if WAN lin me monitoring o bools such as trace bard can enhanc update of follow ingWang/Fetion r/WebThunder// gy /Ares /iMesh, / GoogleMeet / reedom/Garden /PPfilm /PPlive / lix / Disney+ / D (Notes /Oracle / eFile / SMB / FTI eFile / SMB / FTI eridte to Blackli ing traffic toward a and other por ategories includ efined keywords inc bandwidth b ir-based rate/vo age alert of runstallat many daily/wee	rding to config erver according upport method ID pp) health check intent inspectio e-Standby mod 2/Console for m y or thresholds iks are down or f WAN/VPN links eraoute/ping/ns e application qc ing protocols (3 /Dushow/Popo, FlashGet/BT/eD /Gnutella/WinM / Skype/Polycor /Gpass/Tor/Htt PPstream /Real bailymotion / SS MSSQL /RDP // P / OneDrive / C n/Tienl/FenShid HuaShiYo/Danc stTotal.com whi ds IPs listed in E ts of http(s) for ing Porn/Ads/G or built-in cate to a different sc orrowing (max i lume limiting an ining out of quo ion on Window kly/monthly rej	urable loss rate a to URL/Header/C ls of weighted rou- ik methods with E n for scripting yo e to avoid service anagement. Supp of limits per secc HA triggers. Supp (s and history log lookup and lPv6 bo 000+ apps) /SinaUC/Skype/Ya onkey/eD2K/eML dX/Bearshare/Sha n/RTP/RTCP/Skyp pTunnel/JAP/Real Player /QuickTim TV /MeteorNetTY /NC /UltraVNC /V GoogleDriveUp / IC Chia/StockStar/Za e/WarCraft/MoVL o integrate Malwa BlacklistTotal.com filtering with dail ambling/Violence gories, together rate), guarantee (in nd provide portal ta and its followin	nd manage to m ookie/FileType/ ind-robin, least puilt-in HTTP/SS ur own health cl disruption duri port role manage inds to filter der port SNMP trap s toos such as NB ahoo/AOL/ICQ/J le/Overnet/EzPe reaza/Morpheu e/Out/Eyeballcha Tunnel/Vnn/Soft e /KKBox /Shout //3TV /Phoenix /in /PcAnywhere Dropbox / AsusV oZang/AnShin/S i/CadinCar/Mira are Patrol / FireF to stop Bot con y auto updates e/Stock/News/G with IP/subnet/a Julti-level pipes fi min rate), intra C s for status chec ng rate/session 1	ileName, and e connections. Pe _/LDAP/MySQL/ hecks ing hardware fail ment with diffe ial of service at and syslog to of T/NDE abber/LavaLava eer/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/Gnucleus/Kuro/ClubBo s/G	xecute insert/re rsistence suppo /PgSQL/Redis/SI lure rence self-defin tacks ther 3rd-party sy /Gadu/GoogleH px/Poco/Fs2You, oo/Pigo/dc++/: 323 //Wujie/ Live365 /Radio3 : /MMS /SeeTV / feamViewer /Log pera / WenDao/Lineac s / NCCST / F-IS. are / ramsonwar ats/Jokes/Hacke affic into QoS ch n traffic n/IP limits (reser rdware po f tops or raw	emove/modify rt cookie / source , MTP/Proxy/ ed accounts ystems langout /KaZaA/ 100bao e65/PPTV/ /QQlive /QQmusic gmein accounts ge/ AC / SSLBL / re r/Phishing/Spywar nannels





FIBER SOLUTION TRANSCEIVER & MEDIA CONVERTER

Your Link to Business Success

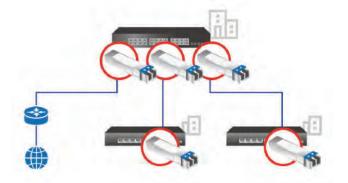
High-Speed Network Transmission for Business Environments

D-Link also offers various fiber accessories like transceiver and media converter for long distance high-speed network transmission, its increased flexibility when expanding a new or existing networkand also provides network administrators with a wide variety of solutions to expand networks over a greater distance while maintaining compatibility with existing network equipment.

SFP Transceiver

Hot Pluggable

All D-Link transceivers are hot pluggable. You can connect a transceiver while the system is powered on without causing any issues, and easily swap one for another without having to reboot the switch each time. This permits modules to be added or removed without interrupting the network, facilitating maintenance and greatly reducing downtime.



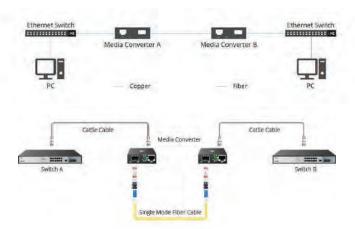
Multiple Applications

Applications of the DEM-300/400 Series fiber transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage. This versatility is invaluable for an expanding network, and helps the infrastructure grow with the business.

Hot Pluggable

All D-Link transceivers are hot pluggable. You can connect a transceiver while the system is powered on without causing any issues, and easily swap one for another without having to reboot the switch each time. This permits modules to be added or removed without interrupting the network, facilitating maintenance and greatly reducing downtime.





Media Converter

Media converters convert signals that are transmitted from one type of media to another so that they can be transmitted over a different type of media. This series of media converters converts 10/100/1000 Mbps copper Ethernet to a 100/1000 Mbps fibre optic connection. This allows you to expand your network by connecting longer distance, high-speed fibre optic cables between devices that are otherwise connected with short distance Ethernet cables, such as Cat. 5 twisted-pair cables.

D-Link

SFP/SFP+Transceivers

Fast Ethernet SFP Transceivers

				2	N
MODEL		DEM-210	DEM-211	DEM-220T	DEM-220R
Standard		IEEE 802.3u 100 BASE-FX	IEEE 802.3u 100 BASE-FX	IEEE 802.3ah 100 BASE-BX-D	IEEE 802.3ah 100 BASE-BX-U
Connector		Duplex LC	Duplex LC	Simplex LC	Simplex LC
	Single-Mode	9/125 μm		9/125 μm	9/125 μm
Fiber Type	Multi-Mode		50/125 μm 62.5/125 μm		
Wavelength		1310 nm	1310 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm
Maximum Di	stance	15 km	2 km	20 km	20 km
Power		3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggab	le	•		•	

D-Link's Small Form-Factor Pluggable (SFP) and 10 Gigabit Small Form-Factor Pluggable (SFP+) Transceivers help to achieve long-distance data transmission and high-speed communication with single-mode fiber, multi-mode fiber and copper cables. These modules can be easily installed into compatible switches and media converters; please see the switch and media converter comparison tables for relevant compatibility.

Gigabit E SFP Tran		and the second second	Ser and a second	A STATE	IT-	a see	WERT T	WERT	REP.ET	REF.T	C. Later
MODEL		DEM-310GT	DEM-311GT	DEM-312GT2	DEM-314GT	DEM-315GT	DEM-330T	DEM-330R	DEM-331T	DEM-331R	DGS-712
Standard		IEEE 802.3z 1000BASE-LX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-LHX	IEEE 802.3z 1000BASE-ZX	IEEE 802.3ah 1000 BASE-BX-D	IEEE 802.3ah 1000 BASE-BX-U	IEEE 802.3ah 1000 BASE-BX-D	IEEE 802.3ah 1000 BASE-BX-U	IEEE 802.3ab 1000BASE-T
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Simplex LC	Simplex LC	Simplex LC	Simplex LC	RJ-45
	Single-Mode	9/125 µm: 10km			9/125 µm	9/125 µm	9/125 μm	9/125 μm	9/125 µm	9/125 µm	
Fiber Type	Multi-Mode		50/125 μm: 550m 62.5/125 μm: 300m	50/125 μm: 2km 62.5/125 μm: 1km							
Wavelength		1310 nm	850 nm	1310 nm	1550 nm	1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	
Maximum Dista	ance	10 km / 550m	550 m / 300m	2km / 1km	50 km	80 km	10 km	10 km	40 km	40 km	100m
Power		3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•	•	•	•	•	•	•

10 Gigabit Ethernet SFP+ Transceivers

SFP+T	ransceivers	and the second s	C. C	-	AND A	-	(S.
MODEL		DEM-431XT / DEM-431XT-DD	DEM-432XT / DEM-432XT-DD	DEM-433XT / DEM-433XT-DD	DEM-434XT	DEM-435XT / DEM-435XT-DD	DEM-436XT-BXD	DEM-436XT-BXU
Standard		IEEE 802.3ae 10GBASE-SR	IEEE 802.3ae 10GBASE-LR	IEEE 802.3ae 10GBASE-ER	IEEE 802.3ae 10GBASE-ZR	IEEE 802.3ae IEEE 802.3aq 10GBASE-LRM	IEEE 802.3ae 10GBASE-LR	IEEE 802.3ae 10GBASE-LR
Connecto	r	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Simplex LC	Simplex LC
	Single-Mode		9/125 μm	9/125 μm	9/125 μm		9/125 µm	9/125 μm
Fiber Type	Multi-Mode	50/125 μm: 300m 62.5/125 μm: 33m				50µm, 400MHz-km: 100m 50µm, 0M2, 500MHz-km: 220m 50µm, 0M3, 2000MHz-km: 220m 62.5/125 µm: 220m		
Waveleng	ıth	850 nm	1310 nm	1550 nm	1550 nm	1310 nm	TX: 1330 nm RX: 1270 nm	TX: 1270 nm RX: 1330 nm
Maximum	n Distance	300 m / 33m	10 km	40 km	80 km	220 m	20 km	20 km
Power		3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Plug	gable	•	•	•	•	•	•	•
Digital Di	agnostics Monitoring	• (DEM-431XT-DD)	• (DEM-432XT-DD)	• (DEM-433XT-DD)		 (DEM-435XT-DD) 		

40 Gigabit Ethernet QSFP+ Transceivers



MODEL		DEM-QX01Q-SR4	DEM-QX10Q-LR4
Standard		40GBASE-SR4	40GBASE-LR4
Connector	r	MPO	Duplex LC
Single-Mode			9/125 μm
Туре	Multi-Mode	OM3: 100m OM4: 150m	
Waveleng	th	850 nm	L0: 1271 nm, L1: 1291 nm, L2: 1311 nm, L3: 1331 nm
Maximum	Distance	150 m	10 km
Power		3.3 V	3.3 V
Hot-Plugg	Jable	•	•
Digital Dia	agnostics Monitoring		•

Industrial Grade Gigabit Ethernet SFP Transceivers*

Standard						
Connector	r					
Fiber Single-Mode						
Type Multi-Mode						
Waveleng	th					
Maximum	Distance					
Power						
Hot-Pluggable						
Operating	Temperature					
* For Use W	ith DIS-200G Series					

le let ers*	Ser Martin	*	Contraction of the second	R. M
	DIS-S310LX	DIS-S301SX	DIS-S302SX	DIS-S350LHX
	IEEE 802.3z 1000BASE-LX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-LHX
	Duplex LC	Duplex LC	Duplex LC	Duplex LC
de	9/125 µm			9/125 µm
e		50/125 µm	50/125 µm	
	1310 nm	850 nm	1310 nm	1550 nm
	10 km	550 m	2 km	50 km
	3.3 V	3.3 V	3.3 V	3.3 V
		•	•	•
e	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C
Carias				

Media Converters

Media converters act as the link point to join copper and fiber connections together, in other words to connect 10/100/1000BASE-T copper to fiber (or vice versa) in order to enable exceedingly rapid network data traffic at enterprise level. They act as a useful conduit when expanding a network, as existing copper-cable-based switches do not have to be replaced but can be expanded upon into a fiber network through the use of a D-Link Media Converter.

There are 2 series of media converters: Chassis-based and Standalone. The Chassis-based Series can be slot into a 16-slot chassis equipped with its own housing and AC power supply. The chassis can be mounted into the rack. This series of media converters can also be used as standalone unit. The Chassis-based Series can be managed with Management Functions. The DMC-1002 Management Module is available with mix managment SNMP and Web Management capabilities.

Chassis-based/Standalone Media Converter Series

						Intel		
MEDIA CONVERTERS	DMC-300SC	DMC-515SC	DMC-530SC	DMC-700SC	DMC-805G	DMC-810SC	DMC-920	DMC-1910
Standards	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	1000BASE-T 1000BASE-SX	IEEE 802.3ab IEEE-802.3z	1000BASE-T 1000BASE-LX	10/100BASE-TX 100BASE-FX	1000BASE-T 1000BASE-LX
Connectors	SC / RJ45	SC / RJ45	SC / RJ45	SC / RJ45	RJ45 / SFP	SC / RJ45	SC / RJ45	SC / RJ45
Data Rate	100 Mbps	100 Mbps	100 Mbps	1 Gbps	1 Gbps	1 Gbps	100 Mbps	1 Gbps
Fiber Type	Multi-Mode	Single-Mode	Single-Mode	Multi-Mode	Single-Mode / Multi-Mode	Single-Mode	Single-Mode	Single-Mode
Fiber Wavelength	1310 nm	1310 nm	1310 nm	850 nm	Depends on SFP Transceivers	1310 nm	DMC-920T: TX: 1550nm, RX: 1310nm DMC-920R: TX: 1310nm, RX: 1550 nm	DMC-1910T: TX: 1550nm, RX: 1310nm DMC-1910R: TX: 1310nm, RX: 1550 nm
Maximum Distance	2 km	15 km	30 km	550 m	Depends on SFP Transceivers	10 km	20 km	15 km

16-Slot Chassis

			and and a second second
CHASSIS AND ACCESSORIES	DMC-1000	DMC-1001	DMC-1002
Description	16-Slot Media Converter Chassis with Internal Power Supply	Redundant Power Supply for DMC-1000	Management Module with SNMP

Standalone Media Converter Series

MEDIA CONVERTERS	DMC-G01LC	DMC-F02SC	DMC-F15SC	DMC-F20SC-BXD	DMC-F20SC-BXU	DMC-F30SC	DMC-F60SC
Standards	IEEE 802.3ab IEEE-802.3z	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX	10/100BASE-TX 100BASE-FX
Connectors	RJ45 / SFP	SC / RJ45					
Data Rate	1 Gbps	100 Mbps					
Fiber Type	Single-Mode / Multi-Mode	Multi-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode
Fiber Wavelength	Depends on SFP Transceivers	1310 nm	1310 nm	TX: 1550nm, RX: 1310nm	TX: 1310nm, RX: 1550 nm	1310 nm	1310 nm
Maximum Distance	Depends on SFP Transceivers	2 km	15 km	20 km	20 km	30 km	60 km

D-Link

