

Product Highlights

High Performance

Gigabit access ports and built-in 10 Gigabit uplinks provide high bandwidth connections for clients, servers, and storage

Flexible Software

Multiple software images provide a flexible approach to software management, allowing only the required features to be installed

High Availability

Up to 9 physical switches can be stacked to create a single virtual switch, providing fault tolerance and increasing network reliability



DGS-3630 Series Gigabit L3 Stackable Managed Switches

Features

High Availability and Flexibility

- 20/44 10/100/1000BASE-T ports or 20 SFP ports
- 4 Combo 10/100/1000BASE-T/SFP ports
- 4 10 GbE SFP+ uplink ports
- Switch Resource Management (SRM) for flexible management of system resources
- 6 kV surge protection on all RJ-45 access ports
- IEEE 802.3af/at PoE (DGS-3630-28PC/52PC)

Reliability

- Redundant Power Supply (RPS) support
- IEEE 802.1D/802.1w/802.1s Spanning Tree
- Loopback Detection (LBD)
- Ethernet Ring Protection Switching (ERPS)

High Bandwidth Stacking

- Physical stack of up to 9 units, 432 GbE ports
- Supports long-distance stacking over fiber
- 80 Gbps per device physical stacking bandwidth

Operations, Administration, and Maintenance

- IEEE 802.3ah Ethernet Link OAM
- IEEE 802.1ag/ITU-T Y.1731 Service OAM

Easy Management

- RJ-45/mini-USB console port
- Management and alarm ports
- USB port for firmware and configuration files
- Easy-to-use web GUI and industry-standard CLI

The DGS-3630 Series Gigabit L3 Stackable Managed Switches are designed for Small to Medium-sized Businesses (SMBs), Small to Medium-sized Enterprises (SMEs), large enterprises, and Internet Service Providers (ISPs). They deliver high performance, flexibility, fault tolerance, and advanced software features for maximum return on investment. With Gigabit Ethernet, SFP, 10 GbE SFP+, 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.

Standard, Enhanced, and MPLS Images

The DGS-3630 Series is designed for use with three different software images: the Standard Image (SI), the Enhanced Image (EI), and the MPLS Image (MI)¹. 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 supports all the features of the Standard Image in addition to full L3 routing for enterprise integration, including OSPF, BGP, VRF-Lite and L3 multicast. The MPLS Image offers all the features of the Standard and Enhanced Images in addition to VPN services for ISPs, including IS-IS and MPLS L2/L3 VPN. With multiple software images, only the required features need to be installed, providing a flexible approach to software management.

High Availability and Flexibility

The DGS-3630 Series allows multiple switches to be combined to form a single physical² or virtual stack. This increases redundancy over multiple physical units, simplifies management, and provides a single IP address to manage all members in the stack. Up to 9 switches can be combined using DACs to make up to 432 Gigabit Ethernet ports available, allowing switching capacity to be increased with demand. The Switch Resource Management (SRM) feature allows the hardware table size to be dynamically changed, so that switch functions can be optimised based on the use of the switch. There are 3 modes: IP Mode, LAN Mode, and L2 VPN Mode. These modes modify the size of the Layer 2 and 3 tables for optimum efficiency.

Switch and Link Failover

D-Link

In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the DGS-3630 Series also supports advanced Ethernet failover redundancy technologies, such as ERPS and FlexLink. Ethernet Ring Protection Switching (ERPS) provides millisecond-level failover in a ring topology. Meanwhile, FlexLink offers link failover on designated switch ports, providing link redundancy without STP or LBD.

Security, Performance, and Availability

The DGS-3630 Series provides a complete set of security features including multi-layer Access Control Lists (ACLs) and 802.1X user authentication via TACACS+ and RADIUS. The DGS-3630 Series also offers extensive VLAN support, including GVRP and 802.1Q VLAN to enhance security and performance. A robust set of QoS features help ensure that critical network services such as Voice over IP and video conferences are given high priority through the network. The D-Link Safeguard Engine increases the switches' reliability, serviceability, and availability by preventing traffic flooding caused by malicious attacks.

Versatile Management

The DGS-3630 Series provides the D-Link Network Assistant Utility, an industry-standard CLI, and an intuitive web-based management interface that enables administrators to set up and remotely manage their networks. Support for SNMP allows centralised management of a large number of devices and out-of-band management is available via a dedicated console port. A mini-USB console port allows the DGS-3630 Series to be managed without any extra connectors, and a USB Type A port can be used to connect a storage device to store logs, configuration settings, and firmware images. The DHCP auto-configuration and auto-image features enable deployment of multiple switches automatically, saving costs for mass deployment. The DGS-3630 Series furthermore supports OpenFlow 1.3, allowing the switches to be managed using an OpenFlow controller⁶.

Power over Ethernet (PoE) Support

The DGS-3630-28PC and DGS-3630-52PC models feature Power over Ethernet, which allows PoE-powered devices to be powered by the switch through a standard Ethernet cable. Both models support the IEEE 802.3af PoE and IEEE 802.3at PoE+ standards, providing up to 30 W of power per port. PoE effectively reduces deployment time for PoE devices such as IP cameras, VoIP phones, and access points, and eliminates the cost for additional electrical cabling. Both models feature a 370 W PoE power budget which can be increased to 740 W when outfitted with the DPS-700 redundant power supply, allowing the switches to power even more devices. Additionally, an extended Link Layer Discovery Protocol (LLDP) automatically negotiates and manages the power feed to IEEE 802.3at PoE+ powered devices for optimal power distribution.

6 kV Surge Protection

The DGS-3630 Series features built-in 6 kV surge protection on all Ethernet access ports. This effectively protects the switches against sudden electrical surges caused events such as lightning strikes or unstable electrical current. Built-in 6 kV surge protection significantly reduces the chances of equipment being damaged by electrical surges and effectively lowers maintenance costs by minimising the need for expensive equipment repairs or replacement.

D-Link Green Technology

The DGS-3630 Series features D-Link Green technology, which includes a power-saving mode, smart fan feature, reduced heat dissipation, and cable length detection. The power-saving feature automatically powers down ports that have no link or link partner and ensures that LEDs are shut off when not needed. The smart fan³ feature enables the built-in fans to automatically activate above a certain temperature threshold, providing continuous, reliable, and eco-friendly operation of the switch.



Technical Specifications			
General	DGS-3630-28SC	DGS-3630-28TC	DGS-3630-52TC
Model Number	• DGS-3630-28SC	• DGS-3630-28TC	• DGS-3630-52TC
Hardware Version	• A1		
Size		• 19-inch, 1U rack-mount size	
Interfaces	 20 x SFP ports 4 x Combo 10/100/1000BASE-T/SFP ports 4 x 10 GbE SFP+ ports 	 20 x 10/100/1000BASE-T ports 4 x Combo 10/100/1000BASE-T/SFP ports 4 x 10 GbE SFP+ ports 	 44 x 10/100/1000BASE-T ports 4 x Combo 10/100/1000BASE-T/SFP ports 4 x 10 GbE SFP+ ports
Console Port	• RJ-45 and	I Mini-USB console ports for out-of-band CL	l management
Management Port	• 10/100/100	0BASE-T RJ-45 Ethernet port for out-of-ban	d IP management
Alarm Port		• 1 x RJ-45 port	
USB Port		• 1 x USB 2.0 Type A port	
Performance			
Switching Capacity	• 128 Gbps	• 128 Gbps	• 176 Gbps
Packet Forwarding Rate	• 95.24 Mpps	• 95.24 Mpps	• 130.95 Mpps
Packet Buffer	• 4 MBytes		
MAC Address Table		• 68K entries ⁴	
IPv4 Routing Table (IPv4 / IPv6)		• 16K entries / 7K entries	
IPv4 Forwarding Table (IPv4 / IPv6) ⁴	32K entries / 16K entries		
Jumbo Frame Size		• 12 KBytes	
Physical			
MTBF	• 280,612.09 hours	• 300,190.46 hours	• 263,936.78 hours
Acoustics	• 56 dB(A)	• 52.7 dB(A)	• 53.9 dB(A)
Heat Dissipation	• 216.81 BTU/h	• 144.58 BTU/h	• 212 BTU/h
Power Input	• 100 to 240 VAC 50/60 Hz		
Maximum Power Consumption	• 63.58 W	• 42.4 W	• 62 W
Standby Power Consumption	• 30.1 W	• 28.1 W	• 36 W
Dimensions	• 441 x 259.8 x 44 mm (17.4 x 10.2 x 1.73 in)		
Weight	• 3.79 kg (8.36 lbs)	• 3.74 kg (8.25 lbs)	• 4.04 kg (8.91 lbs)
Ventilation	• 2 x smart fans ³		
Operating Temperature	• -5 to 50 °C (23 to 122 °F)		
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)		
Operating Humidity	• 10% to 95% RH		
Storage Humidity	• 5% to 95% RH		
Surge Protection	6 kV surge protection on all Ethernet access ports		
Safety Certifications	• cUL, CB, CE, CCC, BSMI		
EMI/EMC	CE, FCC Class A, C-Tick, VCCI, BSMI, CCC		
IPv6 Ready Certification	IPv6 Ready Logo Phase-2		



General	DGS-3630-28PC	DGS-3630-52PC	
Model Number	• DGS-3630-28PC	• DGS-3630-52PC	
Hardware Version	• A1	• A1	
Size	• 19-incl	n, 1U rack-mount size	
Interfaces	 20 x 10/100/1000BASE-T PoE ports 4 x Combo 10/100/1000BASE-T PoE/SFP ports 4 x 10 GbE SFP+ ports 	 44 x 10/100/1000BASE-T PoE ports 4 x Combo 10/100/1000BASE-T PoE/SFP ports 4 x 10 GbE SFP+ ports 	
Console Port	RJ-45 and Mini-USB consol	e ports for out-of-band CLI management	
Management Port	• 10/100/1000BASE-T RJ-45 Eth	ernet port for out-of-band IP management	
Alarm Port		1 x RJ-45 port	
USB Port	• 1 x L	JSB 2.0 Type A port	
Performance			
Switching Capacity	• 128 Gbps	• 176 Gbps	
Packet Forwarding Rate	• 95.24 Mpps	• 130.95 Mpps	
Packet Buffer		• 4 MBytes	
MAC Address Table		68K entries ⁴	
Routing Table (IPv4 / IPv6)	• 16K	16K entries	
Forwarding Table ((IPv4 / IPv6) ⁴	• 32K €	entries / 16K entries	
Jumbo Frame Size		• 12 KBytes	
Power over Ethernet (PoE)			
PoE Standards	• IEEE 802.3af/at		
PoE Power Budget	370 W (740 W with DPS-700 RPS redundant power supply)		
Physical			
MTBF	• 259,222.76 hours	• 199,929.76 hours	
Acoustics	• 48.2 dB(A)	• 51.9 dB(A)	
Heat Dissipation	• 1600.31 BTU/h	• 1653.85 BTU/h	
Power Input	• 100 tc	• 100 to 240 VAC 50/60 Hz	
Maximum Power Consumption	• PoE off: 44.3 W • PoE on: 469.3 W	 PoE off: 54.1 W PoE on: 485 W 	
Standby Power Consumption	• 34.6 W	• 44.6 W	
Dimensions	• 441 x 380 x 44 mm (17.4 x 15 x 1.73 in)		
Weight	• 5.88 kg (12.96 lbs)	• 6.30 kg (13.89 lbs)	
Ventilation	• 4 x smart fans ³		
Operating Temperature	• -5 to 50 ℃ (23 to 122 °F)		
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)		
Operating Humidity	• 10% to 95% RH		
Storage Humidity	• 5% to 95% RH		
Surge Protection	6 kV surge protection on all Ethernet access ports		
Safety Certifications	• cUL, CB, CE, CCC, BSMI		
EMI/EMC	CE, FCC Class A, C-Tick, VCCI, BSMI, CCC		



up to 9 switches in a stack • Up to 20 Gbps stacking bandwidth L2 Features • MAC Address Table : up to 68K entries* • ERPS (Ethernet Ring Protection Switching) version 2 • HOU Control • Bourd Social Science Protocol • Supports One-to-One, Many-to-One, e • B02.10 STP • Flow Control • Supports A mirroring groups • 802.13 STPW • Supports Mirroring for TxR/V80th • Supports Mirroring for TxR/V80th • 802.10 STP • Root Guard • ERPS (Ethernet Ring Protection Group (MLAG)* • 802.10 STP • Root Guard • Supports Mirroring for TxR/V80th • L2 Protocol Tunneling • L2 Protocol Tunneling • L2 Protocol Tunneling • Jumbo Frame: up to 12 KBytes • Multi-Chassis Link Aggregation Group (MLAG)* • 802.1Q • VLAN Group • 802.1Q • 802.1Q • VLAN Group • Multi-Chassis Link Aggregation Group (MLAG)* • 802.1V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG)* • 802.1Q • VLAN Group • Multi-Chassis Link Aggregation Group (MLAG)* • 802.1V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG)* • Support Sup to to 80 add • Support Sup to to 80 add • South-Exased MLAN • VLAN Group	Stackability	 Physical stacking Up to 80 Gbps stacking bandwidth 	 Virtual stacking/clustering of up to 32 units Supports D-Link Single IP Management
• Ring/chain topology support 12.Features • MAC Address Table: up to 68K entries* • EPPS (Elternet Ring Protection Switching) version 2 • HOR Blocking Prevention • Supports Minoring for TXRNs toth • Supports Minoring for TXRNs toth • 10.00 Elocking Prevention • Supports Minoring for TXRNs toth • Supports Minoring for TXRNs toth • 802.10 KMSTP • ULAN Minoring • Supports Minoring for RX • 10.00 Elocking • Eloc Youth Magnetation • Supports Minoring for RX • 10.00 Elocking • Eloc Youth Magnetation • Supports Minoring for RX • 10.00 Elocking • Eloc Youth Minoring • Eloc Youth Magnetation • 802.10 (Min Kagnetation • ULAN Minoring • Multi-Chassis Link Aggregation Group (MLAG)* • 802.10 (Min Kagnetation • Multi-Chassis Link Aggregation Group (MLAG)* • Multi-Chassis Link Aggregation Group (MLAG)* • 802.10 (Min Kagnetation • Multi-Chassis Link Aggregation Group (MLAG)* • Multi-Chassis Link Aggregation Group (MLAG)* • 802.10 (Min Kagnetation • Multi-Chassis Link Aggregation Group (MLAG)* • Multi-Chassis Link Aggregation Group (MLAG)* • 10.00 (MLAN (Porte) • Multi-Chassis Link Aggregation Group (MLAG)* • VLAN Group • Multi-Chassis Link Aggregation Group (MLAG)* • 10.01 (MLAN (Porte)			
• Flow Control • Port Minoring • 602.35 Flow Control Mexicing full-luplex • Supports One-to-One, Many-to-One, • 5panning Tree Protocol • Supports Minoring for TX/RX96th • 602.10 STP • 602.10 STP • 602.10 STP • 602.10 STP • 602.10 STP • 602.10 STP • 602.10 STP • 5Upports A minoring for Rx • 602.10 Strip • Supports Minoring for Rx • 602.10 XLink Aggregation • VLAN Minoring • 802.10 XLink Aggregation • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • 802.10 Protocol-based VLAN • Max 32 groups per device, 8 ports per group VLAN • 802.10 Protocol-based VLAN • Max 42 VLAN groups • Datale VLAN (Sin Q) • Max 52 groups per device, 8 ports per group • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • Support Support A minoring • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • Max 52 groups per device, 8 ports per group VLNN • 802.10 Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • Datale VLAN (Sin Q) • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • Multi-Chassis Link Aggregation Group (MLAG) ⁴ • Support Supportis A MLD Groupsite • Multi-C			op to 20 oppositioning bandmath
+ 802.3k Flow Control when using full-duplex - Supports Mirroring for TVR/R0bth + NOL Blocking Prevention - Supports Mirroring for TVR/R0bth - 802.1 V RSTP - Supports Mirroring for Rx - 802.1 W RSTP - Supports Mirroring for Rx - 802.1 W RSTP - Supports Mirroring for Rx - 802.1 M STP - Supports Mirroring for Rx - 10.0p Guard - Supports Turneling - 10.0p Guard - Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring for Rx - 10.0p Guard - Math Supports Mirroring For Support Supports Mirroring For Support Support Mirroring For Supports Sup	L2 Features	 MAC Address Table : up to 68K entries⁴ 	• ERPS (Ethernet Ring Protection Switching) version 2
+HOL Blocking Prevention • Supports 4 mirroring for IX/RV8cht • Spanning Tree Protocol • Supports 4 mirroring groups • 802.10 STP • Supports 4 mirroring for RX • 802.11 WRSTP • VLAN Winning • 1000 Guard • 12 K8/ytes • 000.11 Kink Aggregation • VLAN Group • 000.12 K1.kk Aggregation • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Max. 4X VLAN groups • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 000.12 V Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 100 V Protoping • Korbased VLAN • VLAN Group • Supports V I NA • Autor Surveillance VLAN • VARN • Supports V I NA • Autor Surveillance VLAN • VGAP Upto MLAG • Private VLAN • VGAP Upto SUP • Supports VLAN • Supports VLAN			5
+ Supports and protocol - Supports and infraring groups • 600.1 DS TP - Row Mirroring • 600.1 W RSTP - Supports Mirroring for Rx • 600.1 W RSTP - Supports Mirroring for Rx • 600.1 W RSTP - Supports Mirroring for Rx • 600.1 W RSTP - Support Mirroring • 600.1 W RSTP - Support Support • 600.1 W RSTP - Support Support • 800.1 W Portace based VLAN - Max. 4094 WDs • 802.1 W Portocol-based VLAN - Max. 4094 WDs • 802.1 W Portocol-based VLAN - Max. 4094 WDs • Submet based VLAN - Max. 4094 WDs • Submet based VLAN - Max. 4094 WDs • Port-based VLAN - VLAN If Surport • Port-based VLAN - Auto Surrellance VLAN • MLD Snooping - IGMP Snooping • MLD Snooping Gat Leave - Supports up to 8K MLD groups* • Supports up to 4K MLD Groups* - Supports up to 8K MLD groups* • Support S datatic KIMP groups - IGMP Snoo			
+ 802.10 STP + Row Minoring • 802.14 MSTP • Supports Minoring for Rx • 802.15 MSTP • ULAN Minoring • Loop Guad • SEPAN • Loop Guad • SEPAN • Loop Guad • Wath-Chassis Link Aggregation Group (MLAG) ⁶ • Max. 32 groups per device, 8 ports per group • Wath-Chassis Link Aggregation Group (MLAG) ⁶ • 802.1AX Link Aggregation • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 802.10 Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 802.10 Protocol-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Port-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Port-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Port-based VLAN • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Port-based VLAN • VLAN (ISM VLAN for IPV-4/IPv6) • Supports Wath MLD And Change • GMRP VLAN • Add Shaged MLD • VLAN • Multi-Chassed VLAN • VLAN • Supports Wath MLD Group' • Supports Wath MLD Group' • Supports Static MLD Grouping • GMRP VLAN • MLD Snooping • GMRP VLAN/MLO Grouping			
# 802.1 W KSTP • Supports Mirroring for fix • 800.1 MSTP • VLAN Mirroring • Loop Guard • SPAN • Loop Guard • SPAN • Loop Guard • Loop Guard • Loop Guard • WLAN Unix Aggregation • Matti * Chassis Link Aggregation Group (MLAG)* • Matti * Chassis Link Aggregation Group (MLAG)* • Mole Chart * VLAN (Cinc.0) • B02.1 V Protocol-based VLAN • Double VLAN (Cinc.0) • Selective Q-in-Q • Numer VLAN • Solective Q-in-Q • Mult Snooping • Supports to the Compont Mitor Inversion • MLD Snooping Solecive Q-in-Q •			
482.15 MSTP • ULAN Mitroring • Loop Guad • SFAN • Loop Guad • L2 Protocol Tunneling • Jumbo Fame: up to 12 KBytes • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 802.1 AVL link Aggregation • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 802.1 AVL link Aggregation • Max. 32 groups per device, 8 ports per group VLAN • 802.1 (O • VLAN Group • 00.01e VLAN (O-In-Q) • Max. 4K VLAN groups • Double VLAN (O-In-Q) • Max. 4K VLAN groups • Port-based VLAN • Auto Stavellance VLAN • MLD Shooping • Multicast VLAN • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping O • MLD Snooping Oueirer • Supports 64 static MLD groups • PerV LAN IGM Snooping Oueirer • IGMP Snooping Oueirer • In Prak ARP/IPv6 ND: support up to 32K/16K ^d • IPv6 Tunneling • Static MLP • Supports 125 kinterface			
• Root Guard • R5PAN • Lopo Guard • L2 Protocol Tunneling • Jumbo Frame up to 12 KBytes • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • 802.1 Q • WLAN Group • 802.1 V Protocol-based VLAN • Max. 4X VLAN groups • Double VLAN Q(-In-Q) • Max. 4X VLAN groups • Port-based Q-in-Q • Multi-Cassis UAN (Sorup - Max. 4X) VLAN for IPv4/IPv6) • Port-based VLAN • Max. 4X VLAN groups • Port-based VLAN • Max. 4X VLAN (Sorup - Max. 4X) VLAN for IPv4/IPv6) • Port-based VLAN • VLAN Surveillance VLAN • Port-based VLAN • VLAN Surveillance VLAN • Port-based VLAN • VLAN Surveillance VLAN • MLD Snooping • IGMP Snooping • MLD Snooping Unerier • IGMP Snooping • MLD Snooping Unerier • Supports based MLD groups' • Supports Up to 4K MLD groups' • Supports 4S static IGMP groups in CAGN Proxy Reporting • MLD Proxy Reporting • IGMP Snooping Cast Leave • Supports 25 doiterface • Supports 5 dost doiter Snooping Cast Leave • MLD Proxy Reporting • IPN Surveillance • First XAN MLD Snooping Cast Iterate • Supports 25 doiterface • Support S 25 doiterface </td <td></td> <td></td> <td></td>			
• Loop Guard • L2 Potocol Tunneling • Multi-Chassis Link Aggregation • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Max. 32 groups per device. 8 ports per group • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Multi-Cassis Link Aggregation Group (MLAG) ⁶ • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Port-based QLAN • Multi-Cassis Link Aggregation Group (MLAG) ⁶ • Port-based VLAN • Multi-Cassis Link Multi-Cassis Link Mggregation Group (MLAG) ⁶ • Selective Qin-Q • Multi-Cassis ULAN • Max Adve VLAN • VLAN Trunking • Subnet-based VLAN • VLAN Trunking • Subnet-based VLAN • CIGMP Snooping • Fild VLAN • GRMP U/AZ/M3 • MULD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping Querier • Host-based MLD Groups * • Supports up to 4K MLD groups * • Per VLAN MLD Snooping • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • NLD Snooping Querier • ISATAP • Supports 25 static ARP • Static • Supports 25 static APP • ISATAP			
Jumbo Tranes up to 12 KBytes • Multi-Chassis Link Aggregation Group (MLAG) ⁶ • Max. 32 groups per device, 8 ports per group • VLAN Group VLAN • 802.1 Q • VLAN Group • B02.1 V Protocol-based VLAN • Max. 4X VLAN groups • Double VLAN (Circup) • Max. 44 VVAN groups • Double VLAN (Circup) • Max. 44 VVAN groups • Port-based VLAN • Max. 44 VVAN (Soup) • Nate VLAN (Soup) • Max. 44 VLAN (Soup) • Port-based VLAN • Auto Surveillance VLAN • Port-based VLAN • Auto Surveillance VLAN • NDL Dooping • GRPE Up to 4K dynamic VLANS • Private VLAN • Auto Surveillance VLAN • MLD Snooping • IGMP 5 nooping • MLD Snooping Querier • IGMP 5 nooping Querier • MUD Snooping Querier • IGMP 5 nooping Guerier • MLD Snooping Querier • IGMP 5 nooping Fast Leave • MLD Proxy Reporting • IPv4 ARPI/IPv6 ND: support up to 32K/16K ⁴ • IPv4 Tunneling • Static CARP • Static CIMP Snooping Fast Leave • Static • Support local ARP • ISATAP • Static • IPv4 ARPI/IPv6 ND: support up to 32K/16K ⁴ • IPv4 Tunneling • Static			
• 802.1AX Link Aggregation			
• Max. 32 groups per device, 8 ports per group VLAN • 802.1Q • VLAN Group • 002.1V Protocol-based VLAN • Max. 4K VLAN groups • 002.1V Protocol-based Q-in-Q • Multicast VLAN (ISM VLAN for IPV4/IPv6) • Port-based Q-in-Q • Multicast VLAN (ISM VLAN for IPV4/IPv6) • Port-based VLAN • Auto Surveillance VLAN • MAX. 420 VLAN • Auto Surveillance VLAN • MAX 50 Surveillance VLAN • VLAN Trunking • VLAN Trunking • GWP V1/V2N • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • MLD Snooping (GMP V1/V2N3) • Supports up to 4K MLD groups * • Supports 45 static MLD groups * • Supports up to 4K MLD groups * • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Guerier • MLD Proxy Reporting • IMA Snooping Stateave • MLD Proxy Reporting • IMA Snooping Guerier • MLD Proxy Reporting • IMA Snooping Guerier • IND Snooping Past Leave • Supports 16K hardware routing entries shared by IPv4/IPv6 • Prev ARP/IPv6 ND: support up to 32K/16K ⁴ • Pv6 Tunneling • I conty consumed by each IPv6 route <t< td=""><td></td><td></td><td>Marti chassis Ellitoriggi egation croap (merte)</td></t<>			Marti chassis Ellitoriggi egation croap (merte)
• 802.1v Protocol-based VLAN • Max. 4K/LAN groups • Double VLAN (Q-in-Q) • Max. 4094 VDs • Port-based Q-in-Q • Multicast VLAN (G-in-Q) • Port-based VLAN • Auto Surveillance VLAN • Max. Aby Charace VLAN • Auto Surveillance VLAN • MAC-based VLAN • Auto Surveillance VLAN • MAC-based VLAN • Auto Surveillance VLAN • MAC-based VLAN • CVRP. Up to 4K dynamic VLANs • Private VLAN • Asymmetric VLAN • MLD VI/V2 Snooping • IGMP Snooping • MLD VI/V2 Snooping Fast Leave • Supports Q-to AK MLD groups' • MULD Snooping Querier • IGMP Snooping Querier • MLD NUD Snooping Querier • IGMP Snooping Querier • MLD Provy Reporting • JStatic • MLD Provy Reporting • ISATAP • IPV4 ARP/IPV6 ID: support up to 32K/16K ⁴ • IPv6 Tunneling • S12 Static ARP • ISATAP • IPV ARP Prive ND: Supports Ipt or ARP • IPVA • IPVA ARP/IPV6 ID: support up to 32K/16K ⁴ • IPVA • IPVA ARP/IPV6 ID: support up to 32K/16K ⁴ • IPVA • IPVA INS • Supports Jot Andware State PAP • IPVA INF State Conte • GRIE			
• 802.1v Protocol-based VLAN • Max. 4K/LAN groups • Double VLAN (Q-in-Q) • Max: 4094 VDs • Port-based Q-in-Q • Multicast VLAN (G-in-Q) • Port-based VLAN • Auto Surveillance VLAN • MAX-based VLAN • Auto Surveillance VLAN • MAX-based VLAN • Auto Surveillance VLAN • MAC-based VLAN • Auto Surveillance VLAN • MAC-based VLAN • CVRP: Up to 4K dynamic VLANs • Private VLAN • Asymmetric VLAN • MLD Snooping • IGMP Snooping • MLD Vi/V2 Snooping • IGMP Snooping Querier • Host-based MLD Snooping Fast Leave • Supports Querier MLD Snooping • MLD Snooping Querier • IGMP Snooping Querier • MLD Droxy Reporting • ISATAP • MLD Proxy Reporting • ISATAP • IPV4 ARP/IPV6 ND: support up to 32k/16K ⁴ • IPv6 Tunneling • S12 Static ARP • ISATAP • IPV1 Proxy Reporting • Static • Loopback Interface • GRE • Supports 1556 interfaces • 6tot4 • Loopback Interface • GRE • Proxy ARP • IPHelper • Supports 16K hardware outing entries shared by IPv4/IPV6	νίαν	. 80210	• VI AN Group
• Double VLAN (C-in-Q) • Max.4094 VIDs • Port-based Q-in-Q • Multicast VLAN (SM VLAN for IPv4/IPv6) • Selective Q-in-Q • Voice VLAN • Port-based VLAN • Auto Surveillance VLAN • Multicast VLAN • VLAN Trunking • Subnet-based VLAN • CVPR-Up to 4K dynamic VLANs • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • Supports up to 4K MLD groups' • Supports up to 8K MLD groups' • Supports so to 4K static MLD groups • Supports 44 static IGMP groups • MLD Snooping Querier • IGMP Snooping Querier • MLD Proxy Reporting • IMM Snooping Guerier • MLD Proxy Reporting • Per VLAN ICMP Snooping Querier • MLD Proxy Reporting • PM Snooping Querier • MLD Proxy Reporting • IMM Snooping Stat Leave • Supports 1256 interfaces • Gratuitous ARP • IP Interface • GRE • Supports 16K hardware outing entries shared by IPv4/IPv • PMI Pv2/3 • Dorback Interface • VRRP • Supports 16K hardware evalt IPv4 route • FBR (Policy-based Route) • IP Helper • Supports 16K hardware evalt IPv4 route • Route Redistribution	VLAN		
• Port-Based Q-in-Q • Multicast VLAN (ISM VLAN for IPv4/IPv6) • Selective Q-in-Q • Voice VLAN • Auto Surveillance VLAN • Auto Surveillance VLAN • MAC-based VLAN • CGVRP: Up to 4K dynamic VLANs • Private VLAN • Asymmetric VLAN • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • MLD Snooping • IGMP Snooping • MD Snooping Ouerier • Supports up to 4K MLD groups' • Supports 64 static MLD groups • Per VLAN IGMP Snooping • MLD Snooping Querier • IGMP Snooping Querier • MLD Droxy Reporting • Per VLAN IGMP Snooping Guerier • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • Supports 12 Static ARP • ISATAP • IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ • IPv6 Tunneling • Support Sci Interfaces • GRE • Loopback Interface • GRE • Loopback Interface • VRRP v2/v3 • Proxy ARP • IP Helper • Support Iocal ARP proxy • PBR (Policy-based Route) <td< td=""><td></td><td></td><td></td></td<>			
• Selective Q-in-Q • Voice VLAN • Port-based VLAN • Auto Surveillance VLAN • MAC-based VLAN • VLAN Trunking • Subnet-based VLAN • CVRP: Up to 4K dynamic VLANs • Private VLAN • CVRP: Up to 4K dynamic VLANs • MLD Snooping • IGMP Snooping • MLD Snooping Stateave • Supports up to 4K MLD groups' • Supports 4 static MLD groups • Supports 44 static IGMP groups • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • MLD Proxy Reporting • IDext Sased GMLP Snooping GARDPS in Post Sased GMLP Snooping Sased GMLP Snooping Sased GMLP Snooping Sased GMLP Snooping GMLP Snooping GMLP Snooping Sased GMLP			
• MAC-based VLAN • VLAN Trunking • Subnet-based VLAN • GVRP: Up to 4K dynamic VLANs • Private VLAN • Asymmetric VLAN 12 Multicast • MLD Snooping • IGMP Snooping • MLD V1/v2 Snooping (MLD V1/v2/v3 • Supports up to 4K MLD groups' • Supports up to 4K MLD groups' • MLD V1/v2 Snooping (MLD V1/v2/v3 • Supports up to 4K MLD groups' • Supports up to 8K MLD groups' • MLD Snooping Querier • Supports 64 static MLD groups • Fer VLAN IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IBVA Snooping Querier • IBVM Snooping • MLD Snooping • Host-based IGMP Snooping Fast Leave • Supports 12 static ARP • S12 Static ARP • Static • Static • Supports 16K hardware routing entries shared by IPv4/IPv6 • IPv6 Tunneling • Supports 16K hardware routing entries shared by IPv4/IPv6 • VBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Koute Preference • Supports 16K hardware routing entries shared by IPv4/IPv6 • PBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Route Preference • Supports 16K hardware routing entries shared by IP			
• Subnet-based VLAN • GVRP: Up to 4K dynamic VLANs • Private VLAN • Asymmetric VLAN L2 Multicast • MLD Snooping • IGMP Snooping • Supports up to 4K MLD groups ⁴ • Supports up to 8K MLD groups ⁴ • Supports of 8K MLD groups ⁴ • Supports up to 4K MLD groups • Supports 64 static IGMP groups • Supports 64 static IGMP groups • HDS Snooping Querier • IGMP Snooping Querier • IGMP Snooping Querier • MLD Proxy Reporting • HOSt-based IGMP Snooping Querier • IGMP Snooping Querier • Per VLAN MLD Snooping • Host-based IGMP Snooping Querier • IGMP Snooping Querier • Fer VLAN MLD Snooping • Host-based IGMP Snooping Querier • IPM Snooping • Static ARP • IPM Snooping • IPM Snooping • Static ARP • IPM Snooping • ISATAP • IP Interface • GRE • GRE • Supports 1256 interfaces • 6to4 • Loopback Interface • VRRP v2/v3 • Proxy ARP • Supports 10 32K hardware routing entries shared by IPV4/IPV6 • PBR (Policy-based Route) • 1 entry consumed by each IPV4 route • Route Preference • Route Preference • Support to 32K hardware L3 forwarding entries shared by IPV4/IPV6 •		Port-based VLAN	Auto Surveillance VLAN
• Private VLAN• Asymmetric VLANL2 Multicast• MLD Snooping • MLD V1/v2 Snooping • Supports up to 4K MLD groups4 • Supports up to 4K MLD groups4 • Supports up to 4K MLD groups4 • Supports of 4 static IGMP groups • Per VLAN IGMP Snooping Querier • IGMP Snooping Querier • IGMP Snooping Querier • Hots-based IGMP Snooping Fast Leave • PIM Snooping • Hots-based IGMP Snooping Fast Leave • Supports 12 Static ARP • Static • Supports 16K hardware routing entries shared by IPv4/IPv6 • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 2 entries consumed by each IPv4 route • Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6' • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 1 entry consumed by each IPv4 route • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv4 route • 1 entry consumed by each IPv6 route • Null Route • Route Red		MAC-based VLAN	VLAN Trunking
L2 Multicast • MLD Snooping • IGMP Snooping L2 Multicast • MLD V1/v2 Snooping • IGMP V1/v2/v3 • Supports up to 4K MLD groups* • Supports up to 8K MLD groups • Supports 45 4stait (IGMP groups • Host-based MLD Snooping Past Leave • Supports 64 stait (ILD groups • Per VLAN IGMP Snooping • MLD Snooping Querier • IGMP Snooping Querier • IGMP Snooping Querier • MLD Proxy Reporting • Host-based IGMP Snooping Fast Leave • MLD Proxy Reporting • PirVLAN IMLD Snooping L3 Features • IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ • IPv6 Tunneling • 512 Static CARP • ISATAP • IP Interface • GRE • Supports 16K hardware routing entries shared by IPv4/IPv6 • IBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Null Route • Supports 16K hardware L3 forwarding entries shared by IPv4/IPv6 • Route Preference • Supports up to 32K hardware L3 forwarding entries shared • Route Redistribution • J entry consumed by each IPv6 route • Route Redistribution • Supports up to 32K hardware L3 forwarding entries shared • Route Redistribution • JPv4/v6' • entries consumed by each IPv6 route • Route Redistribution		 Subnet-based VLAN 	 GVRP: Up to 4K dynamic VLANs
• MLD v1/v2 5nooping • IGMP v1/v2/v3 • Supports up to 4K MLD groups ⁴ • Supports up to 8K MLD groups • Host-based MLD Snooping Fast Leave • Supports 64 static IGMP groups • Supports 64 static MLD groups • Per VLAN IGMP Snooping • MLD Snooping Querier • IGMP Snooping Querier • MLD Snooping Querier • IGMP Snooping • MLD Proxy Reporting • PIM Snooping L3 Features • IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ • IPv6 Tunneling • S12 Static ARP • ISATAP • IPv1 Trace • GRE • Supports 256 interfaces • 6to4 • Loopback Interface • VRRP v2/v3 • Proxy ARP • IP Helper • Supports up to 32K hardware routing entries shared by IPv4/IPv6 • Null Route • 2 entries consumed by each IPv6 route • Route Preference • Supports up to 32K hardware L3 forwarding entries shared • Route Preference • 1 entry consumed by each IPv6 route • Route Preference • 2 entries consumed by each IPv6 route • Route Redistribution • 2 entries consumed by each IPv6 route • Route Redistribution • 2 entries consumed by each IPv6 route • Route Redistribution		Private VLAN	Asymmetric VLAN
Supports up to 4K MLD groups4Supports up to 8K MLD groups4Host-based MLD Snooping Fast LeaveSupports 44 static (IGMP groupsSupports 64 static MLD groupsPer VLAN IGMP Snooping QuerierMLD Snooping QuerierIGMP Snooping QuerierPer VLAN MLD SnoopingHost-based IGMP Snooping Fast LeaveMLD Proxy ReportingPIM SnoopingL3 FeaturesIPv4 ARP/IPv6 ND: support up to 32K/16K4IPv6 TunnelingStatic ARPStaticGratuitous ARPISATAPIP InterfaceGRESupports 256 interfaces6to4Loopback InterfaceVRRP v2/v3Proxy ARPI entry consumed by each IPv6 routeSupports 10 to 32K hardware L3 forwarding entries sharedNull RouteL3 RoutingSupports 16K hardware routing entries shared by IPv4/IPv6Supports up to 32K hardware L3 forwarding entries sharedNull RouteSupports up to 32K hardware L3 forwarding entries sharedRoute PreferenceSupports up to 32K hardware L3 forwarding entries sharedBEP (Bidirectional Forwarding Detection)-1 entry consumed by each IPv6 routeNull Route-2 entries consumed by each IPv6 routeBEP (Bidirectional Forwarding Detection)-2 entries consumed by each IPv6 routeNEP (Policy-based Route)-1 entry consumed by each IPv6 routeSupport Rest (GR) Helper-1 entry consumed by each IPv6 routeSupport Rest (GR) Helper-2 entries consumed by each IPv6 routeNull Route-2 entries consumed by each IPv6 routeNEP (Bidirectional Forwarding Detection)-2 entries consumed by	L2 Multicast	MLD Snooping	IGMP Snooping
• Host-based MLD Snooping Fast Leave• Supports 64 static IGMP groups• Supports 64 static MLD groups• Per VLAN IGMP Snooping• MLD Snooping Querier• IGMP Snooping Fast Leave• Per VLAN MLD Snooping• Host-based IGMP Snooping Fast Leave• MLD Proxy Reporting• PIM SnoopingL3 Features• IPv4 ARP/IPv6 ND: support up to 32K/16K4• IPv6 Tunneling• 512 Static ARP• Static• Gratuitous ARP• ISATAP• IP Interface• GRE• Supports 16K hardware routing entries shared by IPv4/IPv6• VRRP v2/v3• Proxy ARP• Supports 16K hardware routing entries shared by IPv4/IPv6• Null Route• 2 entries consumed by each IPv4 route• Route Preference• Null Route• 2 untries consumed by each IPv4 route• Route Preference• Route Redistribution• 1 untry consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• Static Route• 1 entry consumed by each IPv4 route• Route Preference• Route Preference• Supports 16K hardware to the yeach IPv4 route• Route Preference• Route Preference• Supports 16K hardware to static Route• Route Preference• Route Preference• Supports 16K hardware to static Route• Route Preference• Route Preference• Supports 256 interfaces• Route Preference• Route Preference• Supports 16K hardware to static Route• Route Preference• Route Preference• Supports 16K hardware to static Route• Route Preference• Route Preference• Supports 256 hirter face• Route			
Supports 64 static MLD groups· Per VLAN IGMP Snooping (GMP Snooping Querier · IGMP Snooping Querier · Host-based IGMP Snooping Querier · Static ARP · Static ARP · IP Interface · Supports 256 interfaces · Supports 256 interfaces · Loopback Interface · Support local ARP proxy· IPV6 Tunneling · Static · Static CA · Static CA · Loopback Interface · Support local ARP proxyL3 Routing· Supports 16K hardware routing entries shared by IPv4/IPv6 · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 2 entries consumed by each IPv4 route · 1 entry consumed by each IPv4 route · 1 entry consumed by each IPv4 route ·			
• MLD Snooping Querier • IGMP Snooping Querier • Per VLAN MLD Snooping • Host-based IGMP Snooping Fast Leave • MLD Proxy Reporting • PIM Snooping L3 Features • IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ • IPv6 Tunneling • S12 Static ARP • Static • Gratuitous ARP • ISATAP • IP Interface • GRE • Supports 256 interfaces • 6to4 • Loopback Interface • VRRP v2/v3 • Proxy ARP • IP Helper • Supports 16K hardware routing entries shared by IPv4/IPv6 • PBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Route Preference • Supports 16K hardware I 3 forwarding entries shared by IPv4/IPv6 • Route Preference • Supports 16K hardware I 3 forwarding entries shared by IPv4/IPv6 • Route Preference • Supports 16K hardware to 1Pv4 route • Route Preference • Supports 16K hardware I 3 forwarding entries shared by IPv4/IPv6 • PBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Route Redistribution • 2 entries consumed by each IPv4 route • Route Redistribution • 2 entries consumed by each IPv6 route • Route Redistribution • 2 entries consumed by each IP			
• Per VLAN MLD Snooping • Host-based IGMP Snooping Fast Leave • MLD Proxy Reporting • PIM Snooping L3 Features • IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ • IPv6 Tunneling • S12 Static ARP • ISATAP • IP Interface • GRE • Loopback Interfaces • GRE • Loopback Interface • VRRP v2/v3 • Proxy ARP • IP Helper • Support local ARP proxy • IP Helper L3 Routing • Supports 16K hardware routing entries shared by IPv4/IPv6 • PBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Null Route • Route Preference • Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6 • PBR (Policy-based Route) • 1 entry consumed by each IPv4 route • Route Preference • Route Preference • Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6' • PBF (Bidirectional Forwarding Detection) • 2 entries consumed by each IPv4 route • BFD (Bidirectional Forwarding Detection) • 2 entries consumed by each IPv4 route • RIP • Max. 512 IPv4 entries • VRRP • Max. 512 IPv4 entries • VRP • Max. 256 IPv6 entries • RIPv1/v2/ng <td></td> <td></td> <td></td>			
• MLD Proxy Reporting• PIM SnoopingL3 Features• IPv4 ARP/IPv6 ND: support up to 32K/16K4• IPv6 Tunneling • Static• 512 Static ARP• ISATAP• Gratuitous ARP• ISATAP• IP Interface• GRE• Supports 256 interfaces• 6to4• Loopback Interface• VRRP v2/v3• Proxy ARP• IP Helper• Supports Iocal ARP proxy• IP HelperL3 Routing• Supports 16K hardware routing entries shared by IPv4/IPv6• PBR (Policy-based Route)• 1 entry consumed by each IPv4 route• Null Route• Null Route• 2 entries consumed by each IPv6 route• Route Preference• Route Preference• Supports up to 32K hardware L3 forwarding entries shared• Route Redistribution• 1 entry consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• 1 entry consumed by each IPv6 route• IPv4/v6 Static Route• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• 1 entry consumed by each IPv6 route• IPv4/v6 Static Route• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• 1 entry consumed by each IPv6 route• IPv4/v6 Static Route• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• 2 entries consumed by each IPv6 route• RIP• 1 entry consumed by each IPv6 route• RIP• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route <t< td=""><td></td><td></td><td></td></t<>			
L3 Features L3 Features · IPv4 ARP/IPv6 ND: support up to 32K/16K ⁴ · Static · Static ARP · Gratuitous ARP · IP Interface · GRE · Supports 256 interfaces · Gratuitous ARP · IP Interface · Grave and the second and the secon			
 512 Static ARP Gratuitous ARP IP Interface Supports 256 interfaces Loopback Interface VRRP v2/v3 Proxy ARP IP Helper Support local ARP proxy L3 Routing Supports 16K hardware routing entries shared by IPv4/IPv6 1 entry consumed by each IPv4 route 2 entries consumed by each IPv4 route Supports up to 32K hardware L3 forwarding entries shared y IPv4/IPv6⁴ 1 entry consumed by each IPv4 route Supports 0 at Knardware L3 forwarding entries shared y IPv4/IPv6⁴ 1 entry consumed by each IPv4 route Supports 10 at Knardware L3 forwarding entries shared y IPv4/IPv6⁴ Carceful Restart (GR) Helper 2 entries consumed by each IPv6 route Static Route 2 entries consumed by each IPv6 route Route Redistribution 2 entries consumed by each IPv4 route Nax. 512 IPv4 entries Max. 256 IPv6 entries 		• MLD Ploxy reporting	• Pilvi Shooping
• Gratuitous ARP• ISATAP• IP Interface• GRE• Supports 256 interfaces• 6to4• Loopback Interface• VRRP v2/v3• Proxy ARP• IP Helper• Support local ARP proxy• IP HelperL3 Routing• Supports 16K hardware routing entries shared by IPv4/IPv6• PBR (Policy-based Route)• 1 entry consumed by each IPv4 route• Null Route• 2 entries consumed by each IPv6 route• Route Preference• Supports up to 32K hardware L3 forwarding entries shared• Route Redistribution• J entry consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv4 route• Ruve Static Route• Supports up to 32K hardware L3 forwarding entries shared• Route Redistribution• J entry consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv4 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv4 route• RIP• Max. 512 IPv4 entries• VRRP• Max. 256 IPv6 entries• RIPv1/v2/ng	L3 Features		5
• IP Interface• GRE• Supports 256 interfaces• 6to4• Loopback Interface• VRRP v2/v3• Proxy ARP• IP Helper• Support local ARP proxy• IP HelperL3 Routing• Supports 16K hardware routing entries shared by IPv4/IPv6• PBR (Policy-based Route)• 1 entry consumed by each IPv4 route• Null Route• 2 entries consumed by each IPv6 route• Route Preference• Supports up to 32K hardware L3 forwarding entries shared• Route Redistribution• J entry consumed by each IPv4 route• Route Redistribution• Supports up to 32K hardware L3 forwarding entries shared• Route Redistribution• Supports up to 32K hardware by each IPv6 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv6 route• BFD (Bidirectional Forwarding Detection)• 2 entries consumed by each IPv6 route• IPv4/v6 Static Route• Max. 512 IPv4 entries• VRRP• Max. 256 IPv6 entries• RIPv1/v2/ng			
Supports 256 interfaces• 6to4· Loopback Interface· VRRP v2/v3· Proxy ARP· IP Helper· Support local ARP proxy· PBR (Policy-based Route)L3 Routing· Supports 16K hardware routing entries shared by IPv4/IPv6· PBR (Policy-based Route)· 1 entry consumed by each IPv4 route· Null Route· 2 entries consumed by each IPv6 route· Route Preference· Supports up to 32K hardware L3 forwarding entries shared· Route Redistributionby IPv4/IPv6 ⁴ · BFD (Bidirectional Forwarding Detection)· 1 entry consumed by each IPv4 route· BFD (Bidirectional Forwarding Detection)· 2 entries consumed by each IPv6 route· RIP· 1 entry consumed by each IPv6 route· RIP· Max. 512 IPv4 entries· VRRP· Max. 256 IPv6 entries· RIPv1/v2/ng			
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• Proxy ARP • Support local ARP proxy• IP HelperL3 Routing• Supports 16K hardware routing entries shared by IPv4/IPv6 • 1 entry consumed by each IPv4 route • 2 entries consumed by each IPv6 route • Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv64 • 1 entry consumed by each IPv4 route • Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv64 • 1 entry consumed by each IPv4 route • Route Redistribution • Graceful Restart (GR) Helper • BFD (Bidirectional Forwarding Detection) • 2 entries consumed by each IPv6 route • Static Route • Static Route • Max. 512 IPv4 entries • Max. 256 IPv6 entries• IP Helper • IP Helper • IP Helper • IP Helper • IP Helper • Null Route • Route Preference • RuP • VRRP • RIPv1/v2/ng			
Support local ARP proxy Supports 16K hardware routing entries shared by IPv4/IPv6 Supports 16K hardware routing entries shared by IPv4/IPv6 Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6 ⁴ Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6 ⁴ Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6 ⁴ Static Route Static Route Static Route Max. 512 IPv4 entries Max. 256 IPv6 entries Supports IPv6 entries Support local ARP proxy Supports 16K hardware routing entries shared by IPv4/IPv6 Static Route Static Route			
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 2 entries consumed by each IPv6 route Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6⁴ 1 entry consumed by each IPv4 route 2 entries consumed by each IPv6 route Static Route Static Route Max. 512 IPv4 entries Max. 256 IPv6 entries Route Preference Route Redistribution Graceful Restart (GR) Helper BFD (Bidirectional Forwarding Detection) IPv4/v6 Static Route RIP VRRP Max. 256 IPv6 entries RIPv1/v2/ng 	LS Kouling		
 Supports up to 32K hardware L3 forwarding entries shared by IPv4/IPv6⁴ I entry consumed by each IPv4 route 2 entries consumed by each IPv6 route Static Route Max. 512 IPv4 entries Max. 256 IPv6 entries RIPv1/v2/ng Route Redistribution Graceful Restart (GR) Helper BFD (Bidirectional Forwarding Detection) IPv4/v6 Static Route RIP VRRP 			
by IPv4/IPv6 ⁴ • Graceful Restart (GR) Helper • 1 entry consumed by each IPv4 route • BFD (Bidirectional Forwarding Detection) • 2 entries consumed by each IPv6 route • Static Route • Static Route • RIP • Max. 512 IPv4 entries • VRRP • Max. 256 IPv6 entries • RIPv1/v2/ng			
 1 entry consumed by each IPv4 route 2 entries consumed by each IPv6 route Static Route Max. 512 IPv4 entries Max. 256 IPv6 entries RIPv1/v2/ng 			Graceful Restart (GR) Helper
Static Route Aux. 512 IPv4 entries Max. 256 IPv6 entries RIP RIP RIPv1/v2/ng		 1 entry consumed by each IPv4 route 	BFD (Bidirectional Forwarding Detection)
Max. 512 IPv4 entries VRRP Max. 256 IPv6 entries RIPv1/v2/ng			
Max. 256 IPv6 entries RIPv1/v2/ng			
5			
			• RIPv1/v2/ng
L3 Multicast • IGMP/MLD Filtering			



Standard Image Software Features (Continued)		
QoS (Quality of Service)	 802.1p 8 queues per port Queue Handling Strict Priority (SP) Weighted Round Robin (WRR) Strict + WRR Weighted Deficit Round Robin (WDRR) Congestion Control Weighted Random Early Detection (WRED) 802.1Qbb Priority-based Flow Control (PFC) for 10 GbE port 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) Policy Map Remark 802.1p priority Remark IP precedence/DSCP Time based QoS 	 CoS based on: Switch port Inner/outer 802.1 p Priority Inner/outer VID MAC address Ether Type IP address TOS/IP Preference DSCP Protocol type TCP/UDP port IPv6 Traffic Class IPv6 Flow Label Three Color Marker trTCM srTCM
ACL (Access Control List)	 ACL based on: 802.1 p priority VID MAC address Ether Type LLC VLAN IP address IP preference/ToS DSCP mask Protocol type TCP/UDP port number IPv6 Traffic Class IPv6 Flow Label 	 Max. ACL entries: Ingress (hardware entries): 4K Egress (hardware entries): 1K VLAN Access Map Numbers: 3K Time-based ACL
Green	 Energy-Efficient Ethernet (EEE) Power saving by link status Power saving by cable length Time-based PoE (PoE models only) 	 Power saving by LED shut-off Power saving by port shut-off Power saving by system hibernation
Security	 Port Security Supports up to 12K MAC addresses per port/VLAN/ system Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine DHCP Server Screening Dynamic ARP Inspection IP Source Guard DHCP Snooping IPv6 Snooping Dynamic ARP Inspection (DAI) DHCPv6 Guard IPv6 Route Advertisement (RA) Guard IPv6 ND Inspection Duplicate Address Detection (DAD) 	 ARP Spoofing Prevention Max. 64 entries L3 Control Packet Filtering Unicast Reverse Path Forwarding (URPF) Traffic Segmentation SSL Supports TLS 1.0/1.1/1.2 Supports IPv4/IPv6 access SSH Supports SSH v2 Supports IPv4/IPv6 access BPDU Attack Prevention DOS Attack Prevention NetBIOS/NetBEUI filtering



Standard Image Software Fe		
AAA	 802.1X Authentication Supports port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Bandwidth Control Assignment ACL Assignment Web-based Access Control (WAC) Supports port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Bandwidth Control Assignment Bandwidth Control Assignment Support IPv4/IPv6 access Support HTTPS Compound Authentication 	 MAC-based Access Control (MAC) Supports port/host-based access control Identity-driven Policy Assignment Dynamic VLAN Assignment Bandwidth Control Assignment ACL Assignment ACL Assignment Guest VLAN Microsoft® NAP Support 802.1X NAP Support DHCP NAP Privilege Level for Management Access RAIDUS and TACACS+ Authentication Authentication Database Failover RADIUS/TACACS+ Accounting
OAM (Operations, Administration, and Maintenance)	 Cable Diagnostics 802.3ah Ethernet Link OAM D-Link Unidirectional Link Detection (DULD) Dying Gasp 	 802.1ag Connectivity Fault Management (CFM) Y.1731 OAM Optical Transceiver Digital Diagnostic Monitoring (DDM)
Management	 NTPv3/v4 Precision Time Protocol (PTP) Web-based GUI Support IPv4/IPv6 access Support SSL (HTTP5) Command Line Interface (CLI) Telnet Server for IPv4/IPv6 access Telnet Client for IPv4/IPv6 SNMP Support v1/v2c/v3 Support IPv4/IPv6 access SNMP Trap TFTP Client for IPv4/IPv6 FTP Client for IPv4/IPv6 FTP Client for IPv4/IPv6 FTP Client for IPv4/IPv6 System Log for IPv4/IPv6 Syslog Server SMTP RMONv1 Supports 1, 2, 3, 9 groups RMONv2 Supports ProbeConfig group OpenFlow⁷ Essential features of OpenFlow 1.3 Single pipeline/flow table Switch mode: Pure/Hybrid Max flow rules: Pure Mode: 2048, Hybrid Mode: 1920 	 Command Logging LLDP/LLDP-MED D-Link Discover Protocol (DDP) DHCP Client option 12 DHCP Auto-configuration DHCP Auto-image DHCP Relay option 60/61/62/18/37/125 DHCP/DHCPv6 Local Relay DHCP Server Support IPv4/IPv6 address assignment DHCPv6 Prefix Delegation (PD) Multiple Images/ Multiple Configurations DNS Relay for IPv4/IPv6 DNS Client for IPv4/IPv6 Debug Command Password recovery/ encryption Ping/Traceroute for IPv4/IPv6 Microsoft® Network Load Balancing (NLB) Switch Resource Management (SRM) sFlow D-Link License Management System (DLMS)
Additional Enhanced Image	(El) Features	
VLAN	Super VLAN	
L3 Routing	 BGP BGPv4/v4+ 4bytes AS Text/MD5 for BGPv4 VRF-Lite IPv4 Static Route RIPv1/v2 OSPFv2 BGPv4 	 Bidirectional Forwarding Detection (BFD) for OSPF OSPF OSPF v2/v3 OSPF passive interface Stub/NSSA area OSPF equal cost route Text/MD5 for OSPFv2
L3 Multicast	IGMPv1/v2/v3 MLDv1/v2 IGMP/MLD Proxy DVMRPv3	 PIM SDM (Sparse-Dense Mode)/SSM PIM-SM/DM for IPv4/IPv6⁷ SSM Mapping for IPv4/IPv6 Multicast Source Discovery Protocol (MSDP)



L3 Routing	• IS-IS v4/v6	
MPLS	 Label Distribution Protocol (LDP) PHP (Penultimate hop popping) Virtual Private Wire Service (VPWS) Virtual Private LAN Service (VPLS) 	 BGP/MPLS VPN Multiprotocol extensions for BGP4 Virtual Routing Forwarding (VRF) LSP/VCCV/MPLS Ping/Traceroute
MIB/IETF Standards		
	 RFC1065, RFC1066, RFC1155, RFC1156, RFC2578 MIB Structure RFC1212 Concise MIB Definitions RFC1213 MIBI RFC1215 MIB Traps Convention RFC1493, RFC4188 Bridge MIB RFC1493, RFC4188 Bridge MIB RFC157, RFC2571, RFC2572, RFC2573, RFC2574, RFC2575, RFC2576 SNMP MIB RFC1442, RFC1901, RFC1902, RFC1903, RFC1904, RFC1905, RFC1906, RFC1907, RFC1908, RFC2578, RFC3418, RFC3636 SNMPv2 MIB RFC271, RFC1757, RFC2819 RMON MIB RFC2021 RMONv2 MIB RFC2021 RMONv2 MIB RFC2668 802.3 MAU MIB RFC2668 802.3 MAU MIB RFC2668 802.3 MAU MIB RFC26618 RADIUS Authentication Client MIB RFC2618 RADIUS Authentication Client MIB RFC4022 MIB for TCP RFC4113 MIB for UDP RFC2620 RADIUS Accounting Client MIB RFC2925 Ping & TRACEROUTE MIB TFTP uploads and downloads (D-Link MIB) TFap MIB (D-Link MIB) RFC4293 ICMPv6 MIB Entity MIB RFC4293 ICMPv6 MIB Entity MIB RFV2 MIB OSPF MIB IPv4 Multicast Routing MIB IPv4 Multicast Routing MIB PFC4884 Extended ICMP to support Multi-Part Messages RFC4293 IPv6 SNMP Mgmt Interface MIB 	 DDM MIB (D-Link MIB) Private MIB MIB for D-Link Zone Defense DDP MIB LLDP-MED MIB RFC791 IP RFC768 UDP RFC793 TCP RFC792 ICMPv4 RFC2463, RFC4443 ICMPv6 RFC826 ARP RFC1338, RFC1519 CIDR RFC2474, RFC1568, RFC3260 Definition of the DS Field in the IPv4 and IPv6 Headers RFC1321, RFC2284, RFC2865, RFC2716, RFC1759, RFC358 RFC3748 Extensible Authentication Protocol (EAP) RFC2571 SNMP Framework RFC2572 SNMP Message Processing and Dispatching RFC2573 SNMP Applications RFC2574 User-based Security Model for SNMPv3 RFC1981 Path MTU Discovery for IPv6 RFC2460, IPv6 RFC2461, RFC4861 Neighbor Discovery for IPv6 RFC2464, IPv6 over Ethernet and definition RFC2767 Dual Stack Hosts using the 'Bump-In-the-Stack' Technology RFC3484 Default Address Selection for Internet Protocol version 6 PoE MIB RFC3621 Power Ethernet MIB

Optional License Upgrades		
DGS-3630-28SC-SE-LIC	DGS-3630-28SC Standard Image to Enhanced Image License	
DGS-3630-28SC-SM-LIC	DGS-3630-28SC Standard Image to MPLS Image License	
DGS-3630-28TC-SE-LIC	DGS-3630-28TC Standard Image to Enhanced Image License	
DGS-3630-28TC-SM-LIC	DGS-3630-28TC Standard Image to MPLS Image License	
DGS-3630-52TC-SE-LIC	DGS-3630-52TC Standard Image to Enhanced Image License	
DGS-3630-52TC-SM-LIC	DGS-3630-52TC Standard Image to MPLS Image License	
DGS-3630-28PC-SE-LIC	DGS-3630-28PC Standard Image to Enhanced Image License	
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DGS-3630-52PC-SE-LIC	DGS-3630-52PC Standard Image to Enhanced Image	
DGS-3630-52TC-SM-LIC	DGS-3630-52PC Standard Image to MPLS Image License	

Optional Management Software		
DV-700-N25-LIC	D-View 7 - 25 Node License	
DV-700-N250-LIC	D-View 7 - 250 Node License	
DV-700-P10-LIC	D-View 7 - 10 Probe License	
Optional 10 Gbe 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)	
Optional 1 Gbe SFP Transceivers		
DGS-712	1000BASE-T Copper SFP Transceiver	
DEM-310GT	1000BASE-LX Single-mode, 10 km	
DEM-311GT	1000BASE-SX Multi-mode, 550 m	
DEM-312GT2	1000BASE-SX Multi-mode, 2 km	
Optional 10 Gbps SFP+ Direct Attach Cables		
DEM-CB100S	10 GbE SFP+ 1 m Direct Attach Cable	
DEM-CB300S	10 GbE SFP+ 3 m Direct Attach Cable	
Optional Redundant Power Supplies		
DPS-500A	AC Redundant Power Supply	
DPS-700	AC Redundant Power Supply for PoE models	

¹ Depending on the currently used image version, additional Enhanced and MPLS Image features can be accessed by purchasing the appropriate upgrade license.
 ² Only DGS-3630 Series switches with the same image version can be physically stacked. For example, a DGS-3630 Series switch running the Standard Image can only be stacked with another DGS-3630 Series switch running the Standard Image.
 ³ For non-PoE models, by default, the fan speed is low. When the temperature inside the chassis exceeds 36 °C (97 °F), the fans switch to high speed until the temperature drops below 33 °C (91 °F). For PoE models, by default, the fan speed is low. When the temperature inside the chassis exceeds 37 °C (98 °F), the fans switch to high speed. When the temperature inside the chassis drops below 22 °C (71 °F), the fans switch to high speed. When the temperature inside the chassis drops below 22 °C (71 °F), the fans switch to low speed.
 ⁴ Based on maximum value of Switch Resource Management (SRM).
 ⁵ Stacking cable and USB flash card not included.
 ⁶ Supported in firmware revision R2.10.
 ⁷ OpenFlow Pure Mode is supported by R2.10, OpenFlow Hybrid Mode is supported by R2.20.



For more information: www.dlink.com

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