

Product Highlights

Comprehensive Security Solution

Support for Access Control Lists (ACLs), multiple user authentication methods, and IP-MAC-Port Binding ensures a secure network environment

Superior Reliability

Per-port surge protection, Ethernet Ring Protection Switching (ERPS), and redundant power supply (RPS) features maximize service availability

Zero Touch Provisioning

Centralized configuration allows for Zero Touch Provisioning (ZTP), enabling rapid deployment of large networks with minimal manual configuration



DGS-3000 Series

Managed Gigabit Switches

Features

Reliable Hardware and Software Features

- 6 kV surge protection for Ethernet ports
- Real Time Clock (RTC)
- Dying Gasp
- Ethernet Ring Protection Switching (ERPS)
- Redundant power supply (RPS) support

Advanced Switch Features

- VLAN trunking/mirroring
- ISM VLAN (Multicast VLAN)
- RSPAN
- Zero Touch Provisioning (ZTP)

Comprehensive Security Features

- Access Control Lists (ACLs)
- D-Link Safeguard Engine
- BPDU attack protection
- ARP spoofing prevention
- IP-MAC-Port Binding (IMPB)
- DoS attack prevention
- IEEE 802.1X port-based Access Control
- WAC/MAC-based Access Control
- Guest VLAN

System Management

- 802.1ag CFM
- 802.3ah Ethernet Link OAM
- SNMP v1/v2c/v3
- RMON v1/v2
- LLDP/LLDP-MED

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. Surge protection, 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.

Multi-Gigabit Performance

The DGS-3000 Series Managed Gigabit Switches come with a variety of port types, including 1G RJ-45 ports, 1G SFP ports, and 10G SFP+ ports, with all models offering a minimum of at least two 1G SFP ports. The DGS-3000-28X, DGS-3000-28XS, and DGS-3000-52X offer four 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.

Efficient and Resilient Networking

The DGS-3000 Series supports up to 6 kV surge protection on all Ethernet ports, protecting the switch from power surges due to lightning strikes or faulty electrical cabling. The DGS-3000 Series supports ITU-T G.8032 Ethernet Ring Protection Switching (ERPS), which allows 50 millisecond failover in the event of a failure of one of the rings, minimizing service disruption. The switches also support IEEE 802.1AX and 802.3ad Link Aggregation, which allows grouping of multiple ports to provide redundancy and load balancing in mission-critical environments.

Quality of Service

The DGS-3000 Series implements a rich set of multilayer QoS/CoS features to ensure that critical network services such as VoIP, video conferencing, IPTV, and IP surveillance are given high priority. Flexible packet classification can be based on various header fields or user-defined packet content to help administrators prioritize network traffic. Traffic shaping features guarantee bandwidth for these critical services when the network is busy. Multilayer QoS/CoS features let IT managers arrange network resources more efficiently in enterprise environments.

Identity-driven Network Policies

The DGS-3000 Series supports authentication mechanisms such as 802.1X port-based Access Control, Web-based Access Control (WAC), and MAC-based Access Control (MAC) for strict access control to network resources. After authentication, individual policies such as VLAN membership, QoS policies, and ACL rules can be assigned to each host. Additionally, the switches support Microsoft® NAP (Network Access Protection), which allows network assets to be protected from compromised computers by enforcing compliance with network health policies.

Manageability

D-Link Single IP Management (SIM) simplifies and speeds up management tasks, allowing multiple switches to be configured, monitored, and maintained from any workstation running a web browser and with network connectivity. All switches can be managed as a virtual stack, allowing physically separate switches to be managed using a single IP address. The DGS-3000 Series also supports management tools such as a Web UI, SSH, Telnet, and console, and standards-based protocols such as SNMP, RMON, and SSL.

Security & Authentication

The DGS-3000 Series offers user and device authentication, including host-based authentication and authorization, which provide the option to finely control network access for each device on the network. Advanced features such as RADIUS accounting allow the switches to be integrated with back-end systems for billing or advanced access control. The DGS-3000 Series also supports address and interface binding features such as IP-MAC-Port Binding and ARP Spoofing Prevention to help protect against Man-in-the-Middle or ARP Spoofing attacks.



DGS-3000-10L



DGS-3000-20L



DGS-3000-28L



DGS-3000-28LP



DGS-3000-28X



DGS-3000-28XS



DGS-3000-28XMP



DGS-3000-52L



DGS-3000-52X

Technical Specifications

Model Number	DGS-3000-10L	DGS-3000-20L	DGS-3000-28L	DGS-3000-52L
Hardware Version	B1			
Interface				
Size	• 11-inch standard rack-mount width • 1U height	• 11-inch standard rack-mount width • 1U height	• 19-inch standard rack-mount width • 1U height	• 19-inch standard rack-mount width • 1U height
Interfaces	• 8 x 10/100/1000 Mbps ports • 2 x SFP ports	• 16 x 10/100/1000 Mbps ports • 4 x SFP ports	• 24 x 10/100/1000 Mbps ports • 4 x SFP ports	• 48 x 10/100/1000 Mbps ports • 4 x SFP ports
Console Port	• RJ-45 Console Port			
Port Standards & Functions	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • IEEE 802.3x Flow Control for full-duplex mode, auto-negotiation			
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.); EIA/TIA-568 100-ohm STP (100 m max.)			
Full/Half-duplex	• Half/full-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speeds			
Media Interface Exchange	• Auto or configurable MDI/MDIX			
Performance				
Switching Capacity	• 20 Gbps	• 40 Gbps	• 56 Gbps	• 104 Gbps
Forwarding Method	• Store-and-forward			
MAC Address Table Size	• Up to 16K entries per device			
MAC Address Update	• Up to 512 static MAC entries			
Maximum 64-byte Max. Packet Forwarding Rate	• 14.88 Mpps	• 29.76 Mpps	• 41.67 Mpps	• 77.38 Mpps
Packet Buffer	• 1.5 MB	• 1.5 MB	• 1.5 MB	• 3.0 MB
LEDs				
Power (per device)	✓	✓	✓	✓
Redundant Power Supply (RPS) (per device)	✓	✓	✓	✓
Console (per device)	✓	✓	✓	✓
Link/Active/Speed (per port)	✓	✓	✓	✓
Fan Error				✓
Physical/Environmental				
MTBF	• 841,608 hours	• 762,952 hours	• 635,099 hours	• 501,290 hours
Acoustic	• N/A	• N/A	• N/A	• 47 dB(A)
Heat Dissipation	• 46.405 BTU/h	• 53.229 BTU/h	• 60.1 BTU/h	• 132.99 BTU/h
Power Input	• AC Input: 100 to 240 VAC 50/60 Hz			
Maximum Power Consumption	• 13.6 W	• 15.6 W	• 17.6 W	• 39 W

Standby Power Consumption	• 9.4 W/100 V • 9.6 W/240 V	• 9.8 W/100 V • 10.5 W/240 V	• 10.1 W/100 V • 10.6 W/240 V	• 22.7 W/100 V • 22.8 W/240 V
Dimensions (W x D x H)	• 280 x 140 x 44 mm (11.02 x 5.51 x 1.73 in)	• 280 x 140 x 44 mm (11.02 x 5.51 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)
Weight	• 1.24 kg (2.73 lb)	• 1.42 kg (3.13 lb)	• 2.00 kg (4.41 lb)	• 2.40 kg (5.29 lb)
Ventilation	• Fanless	• Fanless	• Fanless	• 2 x Smart Fan
Power Surge Protection	• All Ethernet ports support IEC61000-4-5 6 kV surge protection			
Operating Temperature	• -5 to 50 °C (23 to 122 °F)			
Storage Temperature	• -20 to 70 °C (-4 to 158 °F)			
Operating Humidity	• 0% to 95% non-condensing			
Storage Humidity	• 0% to 95% non-condensing			
EMI	• CE, FCC, C-Tick, VCCI, BSMI			
Safety Certifications	• cUL, CB			

Technical Specifications

Model Number	DGS-3000-28X	DGS-3000-28XS	DGS-3000-52X
Hardware Version	B1	B1	B1/B2
Interface			
Size	• 19-inch standard rack-mount width • 1U height	• 19-inch standard rack-mount width • 1U height	• 19-inch standard rack-mount width • 1U height
Interfaces	• 24 x 10/100/1000 Mbps ports • 4 x 10G SFP+ ports	• 24 x SFP ports • 4 x 10G SFP+ ports	• 48 x 10/100/1000 Mbps ports • 4 x 10G SFP+ ports
Console Port	• RJ-45 Console Port		
Port Standards & Functions	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • IEEE 802.3ae 10G Ethernet • IEEE 802.3x Flow Control for full-duplex mode, auto-negotiation		
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.); EIA/TIA-568 100-ohm STP (100 m max.)		
Full/Half-duplex	• Half/full-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speeds		
Media Interface Exchange	• Auto or configurable MDI/MDIX		
Performance			
Switching Capacity	• 128 Gbps	• 128 Gbps	• 176 Gbps
Forwarding Method	• Store-and-forward		
MAC Address Table Size	• Up to 16K entries per device		
MAC Address Update	• Up to 512 static MAC entries		
Maximum 64-byte Max. Packet Forwarding Rate	• 95.24 Mpps	• 95.24 Mpps	• 130.95 Mpps
Packet Buffer	• 1.5 MB	• 1.5 MB	• 3.0 MB

LEDs			
Power (per device)	✓	✓	✓
Redundant Power Supply (RPS) (per device)	✓	✓	✓
Console (per device)	✓	✓	✓
Link/Active/Speed (per port)	✓	✓	✓
Fan Error	✓	✓	✓
Physical/Environmental			
MTBF	• 652,062 hours	• 574,974 hours	• 465,240 hours
Acoustic	• 44 dB(A)	• 47.8 dB(A)	• 45.9 dB(A)
Heat Dissipation	• 75.361 BTU/h	• 157.94 BTU/h	• 145.948 BTU/h
Power Input	• AC Input: 100 to 240 VAC 50/60 Hz		
Maximum Power Consumption	• 22.1 W	• 53.4 W	• 40.7 W
Standby Power Consumption	• 14.6 W/100 V • 15.2 W/240 V	• 13.0 W/100 V • 13.5 W/240 V	• 28.6 W/100 V • 28.9 W/240 V
Dimensions (W x D x H)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)
Weight	• 2.00 kg (4.41 lb)	• 2.10 kg (4.63 lb)	• 2.40 kg (5.29 lb)
Ventilation	• 1 x Smart Fan	• 2 x Smart Fan	• 2 x Smart Fan
Power Surge Protection	• All Ethernet ports support IEC61000-4-5 6 kV surge protection		
Operating Temperature	• -5 to 50 °C (23 to 122 °F)		
Storage Temperature	• -20 to 70 °C (-4 to 158 °F)		
Operating Humidity	• 0% to 95% non-condensing		
Storage Humidity	• 0% to 95% non-condensing		
EMI	• CE, FCC, C-Tick, VCCI, BSMI		
Safety Certifications	• cUL, CB		

Technical Specifications		
Model Number	DGS-3000-28LP	DGS-3000-28XMP
Hardware Version	B1	
Interface		
Size	• 19-inch standard rack-mount width • 1U height	• 19-inch standard rack-mount width • 1U height
Interfaces	• 24 x 10/100/1000 Mbps PoE ports • 4 x SFP ports	• 24 x 10/100/1000 Mbps PoE ports • 4 x SFP+ ports
Port Standards & Functions	• Ports 1 to 24 compliant with both IEEE 802.3af/802.3at	• Ports 1 to 24 compliant with both IEEE 802.3af/802.3at

Console Port	• RJ-45 Console Port	
Other Port Standards & Functions	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • IEEE 802.3ae 10G Ethernet • IEEE 802.3x Flow Control for full-duplex mode, auto-negotiation • IEEE 802.3af, 802.3at PoE	
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.); EIA/TIA-568 100-ohm STP (100 m max.)	
Full/Half-duplex	• Half/full-duplex for 10/100 Mbps and full-duplex for 1000 Mbps speeds	
Media Interface Exchange	• Auto or configurable MDI/MDIX	
Performance		
Switching Capacity	• 56 Gbps	• 128 Gbps
Forwarding Method	• Store-and-forward	
MAC Address Table Size	• Up to 16K entries per device	
MAC Address Update	• Up to 512 static MAC entries	
Maximum 64-byte Max. Packet Forwarding Rate	• 41.67 Mpps	• 95.24 Mpps
Packet Buffer	• 1.5 MB	
LEDs		
Power (per device)	✓	✓
Redundant Power Supply (RPS) (per device)	✓	✓
Console (per device)	✓	✓
Link/Active/Speed (per port)	✓	✓
Fan Error	✓	✓
Physical/Environmental		
MTBF	• 304,565 hours	• 268,693 hours
Acoustic	• 47.4 dB(A)	• 54.1 dB(A)
Heat Dissipation	• 840 BTU/h	• 1,518.132 BTU/h
Power Input	• AC Input: 100 to 240 VAC 50/60 Hz	
Maximum Power Consumption	• 246.5 W (PoE on) • 28.4 W (PoE off)	• 445.2 W (PoE on) • 31.8 W (PoE off)
Maximum PoE Budget	• 193 W	• 370 W
Standby Power Consumption	• 19.5 W/100 V • 19 W/240 V	• 24.5 W/100 V • 28.2 W/240 V
Dimensions (W x D x H)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 308 x 44 mm (17.32 x 12.13 x 1.73 in)
Weight	• 2.54 kg (5.60 lb)	• 4.25 kg (9.37 lb)
Ventilation	• 2 x Smart Fan	
Power Surge Protection	• All Ethernet ports support IEC61000-4-5 6 kV surge protection	
Operating Temperature	• -5 to 50 °C (23 to 122 °F)	

Storage Temperature	• -20 to 70 °C (-4 to 158 °F)
Operating Humidity	• 0% to 95% non-condensing
Storage Humidity	• 0% to 95% non-condensing
EMI	• CE, FCC, C-Tick, VCCI, BSMI
Safety Certifications	• cUL, CB

Software Specifications (all models)

Virtual Stacking	• D-Link Single IP Management (SIM) - Up to 32 units per virtual stack	
L2 Features	• MAC Address Table: Up to 16K • Flow Control - 802.3x Flow Control - HOL Blocking Prevention • Jumbo Frames up to 9216 Bytes • Spanning Tree Protocol - 802.1D STP - 802.1w RSTP - 802.1s MSTP • BPDU filtering • Root Restriction	• Loopback Detection • Link Aggregation - Compliant with 802.1AX and 802.3ad • Port Mirroring - Supports 1 Mirroring group - Supports one-to-one, many-to-one, flow-based (ACL) mirroring • Ethernet Ring Protection Switching (ERPS) • L2 Protocol Tunneling (L2PT) • Flex Link
L2 Multicasting	• IGMP Snooping - IGMP v1/v2 /V3¹ - Supports 1024 groups - Port/Host-based IGMP Snooping Fast Leave - Report suppression - IGMP authentication - Limited IP Multicast (IGMP filtering)	• MLD Snooping - MLD v1, MLD v2¹ - Supports 1024 groups - Port/Host-based MLD Snooping Fast Leave
VLAN	• VLAN group - Max. 4094 VLAN • Port-based VLAN • MAC-based VLAN • GVRP - Max. 255 dynamic VLANs • 802.1v Protocol VLAN • Double VLAN (Q-in-Q) - Port-based Q-in-Q	• 802.1Q tagged VLAN • ISM VLAN • VLAN translation • VLAN trunking • VLAN mirroring • RSPAN • Voice VLAN • Private VLAN
L3 Features	• Max. 1024 ARP entries - Supports 255 static ARP entries • Gratuitous ARP • IPv6 Neighbor Discovery (ND) • 16 IP interfaces	• Default route • Static route - 64 IPv4 static routes - 32 IPv6 static routes
Quality of Service (QoS)	• CoS based on - Switch port - 802.1p priority - VLAN ID - MAC address - EtherType - IPv4/IPv6 address - DSCP - ToS - Protocol type - TCP/UDP port - IPv6 traffic class - IPv6 Flow Label - User-defined packet content	• Bandwidth control - Port-based (ingress, min. granularity 64 Kbps) - Flow-based (ingress, min. granularity 64 Kbps) - Egress queue bandwidth control (min. granularity 64 Kbps) • Queue Handling - Strict Priority Queue (SPQ) - Weighted Round Robin (WRR) - SPQ + WRR • 8 queues per port

Access Control List (ACL)	• ACL based on - Switch port - 802.1p priority - VLAN ID - MAC address - EtherType - IPv4/IPv6 address - IPv6 traffic class - IPv6 Flow Label - DSCP - ToS - Protocol type - TCP/UDP port - User-defined packet content	• Up to 1024 ingress access rules • Time-based ACL • ACL statistics • CPU interface filtering
Authentication, Authorization, and Accounting (AAA)	• 802.1X - Port-based Access Control - Host-based Access Control - Dynamic VLAN assignment • MAC-based Access Control (MAC) - Port-based Access Control - Host-based Access Control - Dynamic VLAN assignment • Web-based Access Control (WAC) - Port-based Access Control - Host-based Access Control - Identity Driven WAC policy assignment - Authentication database failover	• Microsoft® NAP (IPv4) • Guest VLAN • RADIUS • RADIUS accounting • TACACS • TACACS+ • XTACACS+ • Trusted host • Four-level user account • Compound authentication
Security	• SSH v1/v2 • SSL v1/v2/v3 • Port Security - Up to 64 MAC addresses per port • Broadcast/multicast/unicast storm control • IP-MAC-Port Binding (IMPB) - ARP inspection - IP inspection - DHCP snooping - DHCPv6 snooping - DHCPv6 Guard - IPv6 Route Advertisement (RA) Guard - IPv6 ND snooping - IPv6 ND inspection	• Traffic segmentation • D-Link Safeguard Engine • L3 control packet filtering • NetBIOS/NetBEUI filtering • DHCP server screening • DHCP client filtering • ARP spoofing prevention • BPDU attack protection • DoS attack prevention
Operations, Administration, and Management (OAM)	• Cable diagnostics • 802.3ah Ethernet Link OAM • Dying Gasp	• 802.1ag Connectivity Fault Management (CFM) • Y.1731 OAM

Management	• Web-based GUI (supports IPv4/v6) • Command Line Interface (CLI) • Telnet server/client • TFTP client • FTP client (supports IPv4) • ZModem • Command logging • SNMP v1/v2c/v3 (supports IPv4) • SNMP Traps • System log • SMTP (supports IPv4) • RMON v1: - Supports 1, 2, 3, 9 groups • RMON v2: - Supports Probe Config group • 802.1AB LLDP - LLDP-MED • BootP/DHCP client (supports IPv4) • DNS client • DHCP auto-configuration - Supports Option 6, 66, 67, and 150 • DHCP auto-image	• DHCP relay - DHCP relay Option 60, 61, and 82 - DHCP client Option 12 • PPPoE circuit-ID tag insertion • Multiple image • Flash file system • CPU monitoring • Memory monitoring • Sntp (supports IPv4) • Debug command • Password recovery • Password encryption • Ping • Traceroute • Microsoft® NLB (Network Load Balancing) support (supports IPv4) • Zero Touch Provisioning (ZTP) • sFlow • D-Link Network Assistant (DNA) • PD Alive • D-Link Discovery Protocol (DDP)
Order Information		
Part Number	Description	
DGS-3000-10L	8 x 10/100/1000 Mbps ports + 2 x SFP ports managed Gigabit switch	
DGS-3000-20L	16 x 10/100/1000 Mbps ports + 4 x SFP ports managed Gigabit switch	
DGS-3000-28L	24 x 10/100/1000 Mbps ports + 4 x SFP ports managed Gigabit switch	
DGS-3000-28LP	24 x 10/100/1000 Mbps PoE ports + 4 x SFP ports managed Gigabit switch	
DGS-3000-28X	24 x 10/100/1000 Mbps ports + 4 x 10G SFP+ ports managed Gigabit switch	
DGS-3000-28XMP	24 x 10/100/1000 Mbps PoE ports + 4 x 10G SFP+ ports managed Gigabit switch	
DGS-3000-28XS	24 x SFP ports + 4 x 10G SFP+ ports managed Gigabit switch	
DGS-3000-52L	48 x 10/100/1000 Mbps ports + 4 x SFP ports managed Gigabit switch	
DGS-3000-52X	48 x 10/100/1000 Mbps ports + 4 x 10G SFP+ ports managed Gigabit switch	
Redundant Power Supply and Cable		
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 SFP Transceivers		
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	
DGS-712	1000BASE-T to SFP transceiver	

DGS-3000 Series Managed Gigabit Switches

Optional WDM SFP Transceivers

DEM-331T	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
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-302S-BXD	1000BASE-LX, wavelength Tx: 1550 nm Rx: 1310 nm, Single-mode, 2 km
DEM-302S-BXU	1000BASE-LX, wavelength Tx: 1310 nm Rx: 1550 nm, Single-mode, 2 km

Optional SFP+ Transceivers

DEM-431XT	10GBASE-SR SFP+ transceiver (without DDM), 33 m: OM1 MMF, 82 m: OM2 MMF, 300 m: OM3 MMF
DEM-432XT	10GBASE-LR SFP+ transceiver (without DDM), 10 km
DEM-433XT	10GBASE-ER SFP+ transceiver (without 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

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

¹ Feature will be supported in firmware version R4.04.

Updated 04/17/2019