

Product Highlights

Flexibility and Reliability

A combination of RJ-45 and SFP ports provides the necessary flexibility to adapt to a wide range of applications and environments

Security and Authentication Features

Robust security features, including the D-Link Safeguard Engine™, protect against malicious attacks, while authentication tools allow access control



Metro Ethernet Switches

DGS-1210/ME Series

Features

Flexible Hardware Design

- Available in multiple configurations:
 - Combinations of 1000BASE-T and SFP
- Designed for standard 1U rack-mounting
- Rear panel RPS connector for an additional external power supply

Layer 2 Features

- 16K MAC address table
- IEEE 802.1D STP, 802.1w RSTP, and 802.1s MSTP
- Loopback detection
- Supports IEEE 802.3ad Link Aggregation
- Port-based Q-in-Q
- VLAN Trunking

Security and Authentication

- Port security
- SSH/SSL
- IP-MAC-Port Binding (IMPB)
- Access Control List (ACL) and IEEE 802.1X
- Guest VLAN

Reliability and Maintenance

- Surge protection on all Gigabit Ethernet ports¹
- ITU-T G.8032 ERPS sub-50 ms protection and recovery
- Dying Gasp for quick trouble shooting during power failures or system shut downs

The DGS-1210/ME Series Metro Ethernet Switches are a range of switches designed for Metro Ethernet applications. They feature a variety of port configurations, including 10/100/1000BASE-T RJ-45 ports and 1G SFP ports for increased network bandwidth. Surge protection, advanced Layer 2 functions, and a suite of security and management tools make the DGS-1210/ME Series Metro Ethernet Switches ideal for Metro Ethernet applications.

Efficient and Resilient

For mission critical environments, the DGS-1210/ME Series Metro Ethernet Switches support IEEE 802.1D 2004 edition, 802.1w, and 802.1s Spanning Tree Protocols (STP). The Spanning Tree Protocol allows the switches to participate in Spanning Tree topology, providing an alternative Layer 2 path in the event of a network failover. The switches also support IEEE 802.3ad link aggregation, which enables multiple ports to be grouped to form a single virtual port, increasing bandwidth and redundancy for higher availability. This series furthermore features IEEE 802.1p Quality of Service (QoS), allowing for real-time traffic classification into Weighted Round Robin (WRR) and strict priority levels mapped to 8 queues. Advanced traffic classification parameters allow the network to be tuned for flexible configurations for specific multimedia applications such as VoIP or IPTV.

Security & Authentication

The DGS-1210/ME Series supports IEEE 802.1X port-based/host-based access control, guest VLAN, and RADIUS/TACACS+ authentication for strict access control to the network. The IP-MAC-Port Binding (IMPB) feature allows administrators to associate a source IP address with a designated MAC address and also offers the flexibility to define the port number to enhance user access control. The built-in D-Link Safeguard Engine™ protects the CPU from broadcast, multicast, and unicast flooding by automatically trapping packets and logging events in these situations. In addition, the Access Control List (ACL) feature enhances network security and switch performance.

DGS-1210/ME Series Metro Ethernet Switches

Management Capabilities

A user-friendly web interface gives administrators access to advanced management features such as DHCP auto-configuration. This enables switches to load their configuration from a TFTP server once they have been assigned an IP address, allowing central management of device configurations. The switches support Link Layer Discovery Protocol (LLDP), which advertises the device's capabilities and identity to the local network, allowing administrators to better manage their network topology. Each port also supports cable diagnostics, which can be used to troubleshoot cable length and functionality problems remotely, resulting in lower management overheads.

Traffic & Bandwidth Control

Integrated bandwidth control allows network administrators to define the throughput levels for ingress and egress bandwidth. It provides a minimum granularity of 64 Kbps for ingress port and flow-based bandwidth control, and a minimum granularity of 64 Kbps for egress queue bandwidth. The DGS-1210/ME Series also supports traffic control, which optimizes performance by dropping packets when exceeding a set threshold, while port mirroring helps administrators facilitate traffic diagnostics and track network performance. The DGS-1210/ME Series also provides IGMP snooping with IGMP authentication to prune multicast traffic and to optimize available bandwidth.

Multicast Applications

The DGS-1210/ME Series features a full set of L2 multicast functions, including IGMP snooping, IGMP filtering, fast leave, and multicast traffic configuration for specific ports. With L2 multicast support, the DGS-1210/ME Series is ready and capable of handling growing IPTV applications. Host-based IGMP/MLD snooping allows for multiple multicast subscribers per physical interface, and ISM VLAN sends multicast streams in a multicast VLAN, saving bandwidth on the backbone. Additionally, ISM VLAN profiles allow users to bind or replace the predefined multicast registration information to subscriber ports quickly and easily.



DGS-1210-10/ME



DGS-1210-20/ME



DGS-1210-28/ME



DGS-1210-52/ME

DGS-1210/ME Series Metro Ethernet Switches

Technical Specifications

Model Number	DGS-1210-10/ME	DGS-1210-20/ME	DGS-1210-28/ME	DGS-1210-52/ME
Hardware Version	Bx	Bx	Bx	Bx
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 10/100/1000BASE-T • 2 1G SFP	• 16 10/100/1000BASE-T • 4 1G SFP	• 24 10/100/1000BASE-T • 4 1G SFP	• 48 10/100/1000BASE-T • 4 1G SFP
Console Port	RJ-45 console port			
Other Port Standards & Functions	• IEEE 802.3i 10BASE-T Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • IEEE 802.3az compliance • Auto-negotiation • IEEE 802.3x Flow Control • IEEE 802.3z 1000BASE-X Gigabit Fiber			
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.)			
Full/Half-Duplex	• Full/half-duplex for 10/100 Mbps speeds • Full-duplex for 1000 Mbps speed			
Media Interface Exchange	• Auto MDI/MDIX adjustment for all twisted-pair ports			
Performance				
Switching Capacity	20 Gbps	40 Gbps	56 Gbps	104 Gbps
64-byte Max. Forwarding Rate	14.88 Mpps	29.80 Mpps	41.7 Mpps	77.4 Mpps
MAC Address Table Size	16K entries			
CPU Memory	256 MB DDR3			
Packet Buffer	1.5 MB	1.5 MB	1.5 MB	3.0 MB
Flash Memory	32 MB			
LEDs				
Power (per device)	✓	✓	✓	✓
Console (per device)	✓	✓	✓	✓
Link/Active/Speed (per port)	✓	✓	✓	✓
Fan Error				✓
Physical/Environmental				
MTBF	412,956 hours	349,836 hours	497,918 hours	381,999 hours
Acoustic	0 dB(A)	0 dB(A)	0 dB(A)	High speed: 49 dB(A) Low speed: 40 dB(A)
Heat Dissipation	46.35 BTU/hr	47.67 BTU/hr	60.12 BTU/hr	132.08 BTU/hr
Power Input	AC Input: 100 to 240 V AC, 50/60 Hz			
Optional 54 W AC to DC PSU	• Output: 12.4 V/3.7 A (min 11.78 V & max 13.02 V); 13.6 V/0.6 A (min 13.40 V & max 13.80 V) • Charging output for lead-acid battery: 13.6 V +/- 1.5%; charge current 0.6 A +/- 0.1 A			

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Battery Connection Input	• Rear RPS socket for connecting external lead-acid batteries • Battery status monitoring through CLI or SNMP			
Maximum Power Consumption	13.38 W/100 V 13.59 W/240 V	13.81 W/100 V 13.97 W/240 V	19.05 W/100 V 19.14 W/240 V	38.85 W/100 V 38.35 W/240 V
Standby Power Consumption	9.3 W/100 V 9.4 W/240 V	6.76 W/100 V 6.95 W/240 V	7.87 W/100 V 8.21 W/240 V	21.72 W/100 V 21.49 W/240 V
Dimensions (W x D x H)	280 x 126 x 44 mm	280 x 180 x 44 mm	440 x 140 x 44 mm	440 x 210 x 44 mm
Ventilation	Fanless	Fanless	Fanless	1 x Smart fan
Weight	1.05 kg	1.38 kg	2.21 kg	3.31 kg
Power Surge Protection	All Gigabit Ethernet ports support IEC 61000-4-5 surge protection			
Operating Temperature	-5 to 50 °C (23 to 122 °F)			
Storage Temperature	-40 to 70 °C (-40 to 158 °F)			
Operating Humidity	10% to 90% non-condensing			
Storage Humidity	5% to 90% non-condensing			
EMI	FCC class A, CE class A, VCCI, BSMI, CCC			
Safety Certifications	CE, LVD, UL, CB			

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Software		
L2 Features	• MAC address table: 16K entries • Jumbo Frame Support: Up to 9,216 bytes • Spanning Tree Protocols - 802.1D STP - 802.1w RSTP - 802.1s MSTP - BPDU filtering - Root restriction • Loopback detection	• Mirroring - Support 1 mirroring group - Support One-to-One, Many-to-One, Flow-based (ACL) mirroring for ingress traffic • L2 Protocol Tunneling (L2PT) • Link aggregation - Compliant with 802.3ad - Supports max. 8 groups, 8 ports per group
L2 Multicasting	• IGMP Snooping - IGMP v1/v2 snooping, v3 awareness - IGMP authentication/filtering - Supports 1024 groups - VLAN/host-based IGMP snooping fast leave - Report suppression	• MLD Snooping - MLD v1, MLD v2 awareness - Supports 1024 groups
VLAN	• 802.1Q tagged VLAN • VLAN group • Max. 4094 VLAN groups • Port-based VLAN • GVRP • Asymmetric VLAN • Max. 256 dynamic VLAN	• 802.1v protocol VLAN • VLAN trunking • MAC-based VLAN • Port-based Q-in-Q • ISM VLAN (multicast VLAN) • Private VLAN
L3 Features	• Max. 256 ARP entries • Supports 255 static ARP entries • Static route - 64 IPv4 static routes - 32 IPv6 static routes	• Supports Gratuitous ARP • Default route • 4 IP interfaces
Quality of Service (QoS)	• CoS based on: - Switch port - 802.1p priority queues - VLAN ID - MAC address - IPv4/IPv6 address - DSCP - TOS - Protocol type - TCP/UDP port - IPv6 traffic class	• 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 - Weighted Round Robin (WRR) • 8 outbound queues
Access Control List (ACL)	• ACL based on - Switch port - 802.1p priority - VLAN ID - MAC address - EtherType - TOS - IPv4/v6 address - DSCP - Protocol type - IPv4/IPv6 TCP/UDP port number - ICMP - IPv6 traffic class	• Up to 256 ingress access rules • ACL action (permit/deny/mirror) • Time-based ACL • ACL statistics • CPU interface filtering

DGS-1210/ME Series Metro Ethernet Switches

Authentication, Authorization, and Accounting (AAA)	• 802.1X - Host-based access control - Port-based access control • Guest VLAN • Host-based MAC authentication • RADIUS accounting	• TACACS+ accounting • User account privilege (4 level user access) • MAC-based access control - Max. 512 entries when using local database • Authentication for management access - Local, RADIUS, TACACS+ database
Security	• SSH v2 • SSL v1/2/3 • Port security (Up to 64 MAC addresses per port) • IP-MAC-Port Binding (IMPB) - ARP inspection - IP inspection - IPv6 DHCP snooping • Broadcast/Multicast/Unicast storm control	• D-Link Safeguard Engine • DHCP server screening • DHCP client filtering • BPDU attack protection • DoS attack prevention • Traffic segmentation
Operations, Administration, and Maintenance (OAM)	• 802.3ah Ethernet Link OAM - Supports 802.3ah link layer remote loopback and discovery (System log and SNMP) - 802.3ah D-Link extension: D-link Unidirectional Link Detection (DULD), (System log and SNMP)	• Cable diagnostics • Dying Gasp • Supports optical transceiver digital diagnostics monitoring (DDM)
Management	• Web-based GUI (IPv4/IPv6) • Command Line Interface (CLI) • Telnet Server/Client (Support IPv4/IPv6) • TFTP client (IPv4) • Command logging • SNMP v1/v2c/v3 • SNMP traps • System log • RMON v1 • RMON v2 • LLDP • BootP/DHCP client • DHCP auto-configuration • Text-editable config file	• Trusted host • DHCP relay (IPv4/IPv6) - DHCP relay agent/local relay - DHCP relay option 12, 18, 37, 38, 82 • PPPoE Circuit-ID tag insertion • Trap/alarm/log severity control • CPU monitoring • SNMP • Debug command • Password recovery • Password encryption • Backdoor password
MIB	• RFC1212 Concise MIB Definitions • RFC1213 MIB II • RFC1215 MIB Traps Convention • RFC1065, 1151, 2578 MIB Structure • RFC1493 Bridge MIB • RFC1157, 2573, 2575, 2576 SNMP MIB • RFC3418 SNMPv2 MIB • RFC2819 RMON MIB • RFC2021 RMONv2 MIB • RFC1643, 1650, 2665 Ether-like MIB	• RFC2674 802.1p MIB • RFC 2233 Interface Group MIB • RFC 2618 RADIUS authentication client MIB • RFC 2620 RADIUS accounting client MIB • RFC3289 D-Link Zone Defense MIB • RFC4022 MIB for TCP • RFC4113 MIB for UDP • DDP MIB • LLDP-MED MIB
IETF Standard	• RFC768 UDP • RFC791 IP • RFC792 ICMPv4 • RFC2463, 4443 ICMPv6	• RFC793 TCP • RFC826 ARP • RFC1321, 2284, 2865, 2716, 3580 Extensible Authentication Protocol (EAP)
IPv6	• RFC1981 Path MTU Discovery • RFC2460 IPv6 • RFC2461, 4861 Neighbor Discovery	• RFC2462, 4862 IPv6 Stateless Address Auto-configuration • RFC2893, 4213 IPv4/IPv6 dual stack function
Redundant Power Supply		
DPS-200A	Redundant Power Supply	
DPS-500A	Redundant Power Supply	
DPS-500DC	Redundant Power Supply	
DPS-CB150-2PS	150 cm RPS cable for connecting DGS-1210-10/ME, 20/ME, 28/ME, 52/ME, and DPS-200A/500A/500DC	
SU54-21124-000S	Optional 54 W AC to DC Power Supply Unit (PSU) with external lead-acid battery support that can be used as a redundant power supply, or to connect an external 13.6 V DC lead-acid battery to charge the switch. The minimum required voltage for the lead-acid battery is 13.6 V DC, with a minimum capacity of 2 AH (for DGS-1210-10/ME, 20/ME, 28/ME, 52/ME).	

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Optional DC Primary Power Supply

SF24-2120200-1C	Input voltage: 72 V DC to 36 V DC, output voltage: 12 V/2 A (for DGS-1210-10/ME, 20/ME, 28/ME)
SE40-1120333-3C	Input voltage: 72 V DC to 36 V DC, output voltage: 12 V/3.33 A (for DGS-1210-52/ME)

Optional SFP Transceivers

DEM-310GT	1000BASE-LX, Single-mode, 10 km
DEM-311GT	1000BASE-SX, Multi-mode, 500 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 100 m (only supports 1000 Mbps mode) (no Flow Control)
DEM-302S-LX	1000BASE-LX, Single-mode, 2 km

Optional WDM SFP Transceiver

DEM-330T	1000BASE-LX, Single-mode, 10 km, Tx: 1550, Rx: 1310 nm
DEM-330R	1000BASE-LX, Single-mode, 10 km, Tx: 1310, Rx: 1550 nm
DEM-331T	1000BASE-LX, Single-mode, 40 km, Tx: 1550, Rx: 1310 nm
DEM-331R	1000BASE-LX, Single-mode, 40 km, Tx: 1310, Rx: 1550 nm
DEM-302S-BXD	1000BASE-LX, Single-Mode, 2 km, Tx: 1550, Rx: 1310 nm
DEM-302S-BXU	1000BASE-LX, Single-Mode, 2 km, Tx: 1310, Rx: 1550 nm

¹ All Gigabit Ethernet ports of the DGS-1210/ME Series switches support up to 6 kV surge protection.



For more information: www.dlink.com

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