

Highlights

Easy Management

A Web UI, a CLI through Telnet and SSH and a variety of management features allow the switches to integrate with your existing network

IPv6 Ready

IPv6 compliance means that the switches are ready to meet future addressing standards, and are compatible with both your IPv4 and IPv6 network

Power over Ethernet

Increased PoE capability and support for IEEE 802.3af/at allow the PoE models in the series to power more devices with greater port density



DGS-1210/FL Series L2 Managed Switches

Features

Green Technology

- Link status detection
- Port shut-off
- System hibernation
- Cable length detection

Security Features

- Access Control Lists (ACLs)
- D-Link Safeguard Engine helps the CPU resist broadcast/multicast/unicast flooding
- Port Security supports up to 64 MAC addresses per port

Intuitive Management

- Web UI
- Built-in SNMP MIB for remote NMS (D-View 7.0)
- Command Line Interface (CLI) through Telnet and SSH

Advanced Features

- Auto Surveillance VLAN
- Voice VLAN
- Loopback Detection
- Cable diagnostics
- Auto MDI/MDIX adjustment for all twisted-pair ports
- Dual Image

The D-Link DGS-1210/FL Series L2 Managed Switches are a generation of switches designed to provide increased Power over Ethernet (PoE) output, a range of physical interface types, multiple management interfaces, and advanced Layer 2 features. With all of these features combined, the DGS-1210/FL Series provides a cost-efficient and flexible solution for expanding any business network.

Seamless Integration

The DGS-1210/FL Series includes a wide range of port and media types, including 10/100/1000BASE-T RJ-45 ports, 100/1000 Mbps combo ports, and 100/1000 Mbps SFP ports. The DGS-1210-10/FL, DGS-1210-26/FL, DGS-1210-10P/FL, and DGS-1210-10MP/FL feature 2 100/1000 Mbps SFP ports, while all other DGS-1210/FL Series models feature 4 GbE/SFP combo ports, allowing you to choose the most suitable media type for your requirements. All DGS-1210/FL Series PoE switches include support for IEEE 802.3af/at and higher power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets.

Advanced Features

The DGS-1210/FL Series comes equipped with a complete lineup of L2 features, including IGMP snooping, port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers. Network maintenance features include loopback detection and cable diagnostics. Loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The cable diagnostics feature, designed primarily for administrators and customer service representatives, determines the cable quality and quickly discovers errors, allowing for hassle-free diagnostics and maintenance.

Efficient and Resilient Networking

The DGS-1210/FL Series supports up to 6 kV surge protection on all Ethernet ports, protecting the switch from the damage caused by power surges due to lightning strikes or faulty electrical cabling. The switches also support 802.3ad Link Aggregation, which allows grouping of multiple ports to provide redundancy and load balancing in mission-critical environments. Combined, the two features ensures the reliability of data transmission in your network.

Versatile Management

The DGS-1210/FL Series also supports D-View 7.0 and Command Line Interface (CLI) through Telnet and SSH. D-View 7.0 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Security and Authentication

D-Link's innovative Safeguard Engine helps to protect the switches against traffic flooding caused by malicious attacks. DGS-1210/FL Series supports 802.1X port-based authentication, allowing the clients to be authenticated through external RADIUS servers. The Access Control List (ACL) feature helps to enhance network security and helps to protect the internal IT network. To help prevent ARP spoofing attacks, the switch uses packet control ACLs to block invalid packets that contain fake ARP messages.

Green Technology

The DGS-1210/FL Series is capable of saving power without sacrificing performance or functionality by using D-Link Green technology. Link status detection automatically powers down ports when there is no link detected, saving power when the connected device has been shut down or disconnected. The used chipset allows the switch to reduce energy consumption.

Technical Specifications

Model Number	• DGS-1210-10/FL	• DGS-1210-20/FL	• DGS-1210-26/FL	• DGS-1210-28/FL	• DGS-1210-52/FL
General					
Interfaces	• 8 x 10/100/1000BASE-T • 2 x 100/1000 Mbps SFP ports	• 16 x 10/100/1000BASE-T • 4 x 100/1000 Mbps GbE/SFP combo ports	• 24 x 10/100/1000BASE-T • 2 x 100/1000 Mbps SFP ports	• 24 x 10/100/1000BASE-T • 4 x 100/1000 Mbps GbE/SFP combo ports	• 48 x 10/100/1000BASE-T • 4 x 100/1000 Mbps GbE/SFP combo ports
Port Standards	• IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-FX 100 Mbps over fiber optic • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic • IEEE 802.3az Energy Efficient Ethernet (EEE) • IEEE 802.3x Flow Control				
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.)				
Duplex Mode	• Full/Half-duplex for 10/100 Mbps • Full-duplex for 1000 Mbps				
Media Interface Exchange	• Auto MDI/MDIX adjustment for all twisted-pair ports				
Performance					
Switching Capacity	• 20 Gbps	• 40 Gbps	• 52 Gbps	• 56 Gbps	• 104 Gbps
Transmission Method	• Store-and-forward				
MAC Address Table	• 8K entries				• 16K entries
Static MAC Addresses	• 256 entries				
Maximum 64 Byte Packet Forwarding Rate	• 14.88 Mpps	• 29.8 Mpps	• 38.7 Mpps	• 41.7 Mpps	• 77.4 Mpps
Packet Buffer Memory	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 12 Mbits
CPU Memory	• 256 MB				
Flash Memory	• 32 MB				
LEDs					
Power (per device)	✓				
Link/Active/Speed (per port)	✓				
Physical/Environmental					
Power Input	• 100 to 240 V AC 50/60 Hz internal universal power supply				
Maximum Power Consumption	• 6.31 W/100 V • 6.33 W/240 V	• 13.08 W/100 V • 13.02 W/240 V	• 15.22 W/100 V • 15.11 W/240 V	• 17.32 W/100 V • 16.94 W/240 V	• 34.85 W/100 V • 34.2 W/240 V
Standby Power Consumption	• 2.03 W/100V • 2.07 W/240V	• 5.47 W/100 V • 5.56 W/240 V	• 5.01 W/100 V • 5.06 W/240 V	• 6.49 W/100 V • 6.55 W/240 V	• 13.7 W/100 V • 13.9 W/240 V
Acoustics	• 0 dB(A)	• 0 dB(A)	• 0 dB(A)	• 0 dB(A)	• 0 dB(A)
Heat Dissipation	• 21.53 BTU/hr (100V) • 21.59 BTU/hr (240V)	• 44.62 BTU/hr (100V) • 44.41 BTU/hr (240V)	• 51.93 BTU/hr (100V) • 51.57 BTU/hr (240V)	• 59.09 BTU/hr (100V) • 57.79 BTU/hr (240V)	• 118.92 BTU/hr (100V) • 116.7 BTU/hr (240V)
Operating Temperature	• -30 to 50°C				

Storage Temperature	• -40 to 70°C				
Operating Humidity	• 10% to 90% relative humidity				
Storage Humidity	• 5% to 90% relative humidity				
Dimensions (L x W x H)	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 in)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 in)	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 in)	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 in)	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)
Weight	• 0.98 kg (2.16 lbs)	• 1.75 kg (3.86 lbs)	• 2.06 kg (4.54 lbs)	• 2.15 kg (4.74 lbs)	• 3.46 kg (7.63 lbs)
Certifications	• CE, VCCI, FCC, cUL, BSMI, CCC, C-Tick				
MTBF	• 1,380,058 hours	• 1,087,100 hours	• 1,082,534 hours	• 992,594 hours	• 400,667 hours

Technical Specifications

Model	• DGS-1210-10P/FL	• DGS-1210-10MP/FL	• DGS-1210-28P/FL	• DGS-1210-28MP/FL	• DGS-1210-52MP/FL
General					
Interfaces	• 8 10/100/1000BASE-T PoE • 2 100/1000 Mbps SFP ports	• 8 10/100/1000BASE-T PoE • 2 100/1000 Mbps SFP ports	• 24 10/100/1000BASE-T PoE • 4 100/1000 Mbps GbE/SFP combo ports	• 24 10/100/1000BASE-T PoE • 4 100/1000 Mbps GbE/SFP combo ports	• 48 10/100/1000BASE-T PoE • 4 100/1000 Mbps GbE/SFP combo ports
Port Standards	• IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) • IEEE 802.3u 100BASE-FX 100 Mbps over fiber optic • IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper) • IEEE 802.3z 1000BASE-X 1 Gbps over fiber optic • IEEE 802.3az Energy Efficient Ethernet (EEE) • IEEE 802.3x Flow Control • IEEE 802.3af/at compliance (for PoE ports)				
Network Cables	• UTP Cat. 5, Cat. 5e (100 m max.)				
Duplex Mode	• Full/Half-duplex for 10/100 Mbps • Full-duplex for 1000 Mbps				
Media Interface Exchange	• Auto MDI/MDIX adjustment for all twisted-pair ports				
Performance					
Switching Capacity	• 20 Gbps	• 20 Gbps	• 56 Gbps	• 56 Gbps	• 104 Gbps
Transmission Method	• Store-and-forward				
MAC Address Table	• 8K entries				• 16K entries
Static MAC Addresses	• 256 entries				
Maximum 64 Byte Packet Forwarding Rate	• 14.88 Mpps	• 14.88 Mpps	• 41.7 Mpps	• 41.7 Mpps	• 77.4 Mpps
Packet Buffer Memory	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 4.1 Mbits	• 12 Mbits
CPU Memory	• 256 MB				
Flash Memory	• 32 MB				
PoE					
PoE Capable Ports	• Ports 1 to 8		• Ports 1 to 24		• Ports 1 to 48
Power Budget	• 65 W	• 130 W	• 193 W	• 370 W	• 370 W
LEDs					
Power (per device)	✓	✓	✓	✓	✓
Link/Active/Speed (per port)	✓	✓	✓	✓	✓
PWR Max	✓	✓	✓	✓	✓
Fan Error	• N/A	• N/A	✓	✓	✓

Physical/Environmental					
Power Input	• 54.0 V DC external power adapter	• 100 to 240 V AC 50/60 Hz internal universal power supply			
Maximum Power Consumption (PoE enabled)	• 81.9 W/100 V • 80.6 W/240 V	• 152.3 W/100 V • 148.7 W/240 V	• 263.9 W/100 V • 247.4 W/240 V	• 446.1 W/100 V • 424.8 W/240 V	• 478.9 W/100 V • 454.1 W/240 V
Maximum Power Consumption (PoE disabled)	• 7.6 W/100 V • 7.5 W/240 V	• 8.5 W/100 V • 9.4 W/240 V	• 30.6 W/100 V • 28.1 W/240 V	• 29.8 W/100 V • 29.0 W/240 V	• 54 W/100 V • 54.4 W/240 V
Standby Power Consumption	• 2.5 W/100 V • 2.5 W/240 V	• 4.3 W/100 V • 5.2 W/240 V	• 19.6 W/100 V • 16.6 W/240 V	• 18.5 W/100 V • 17.1 W/240 V	• 32 W/100 V • 31.6 W/240 V
Acoustics	• 0 dB(A)	• 0 dB(A)	• High speed: 51.7 dB(A) • Low speed: 44.9 dB(A)	• High speed: 51.7 dB(A) • Low speed: 44.9 dB(A)	• High speed: 52.4 dB(A) • Low speed: 47.6 dB(A)
Heat Dissipation	• 279.59 BTU/hr (100 V) • 275.04 BTU/hr (240 V)	• 519.51 BTU/hr (100 V) • 507.23 BTU/hr (240 V)	• 900.36 BTU/hr (100 V) • 844.23 BTU/hr (240 V)	• 1521.99 BTU/hr (100 V) • 1449.49 BTU/hr (240 V)	• 1634.01 BTU/hr (100 V) • 1549.29 BTU/hr (240 V)
Fans	• N/A	• N/A	• 2	• 2	• 3
Operating Temperature	• -30 to 50°C				
Storage Temperature	• -40 to 70°C				
Operating Humidity	• 10% to 90% relative humidity				
Storage Humidity	• 5% to 90% relative humidity				
Dimensions (L x W x H)	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 in)	• 330 x 180 x 44 mm (12.99 x 7.09 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	• 440 x 430 x 44 mm (17.32 x 16.93 x 1.73 in)
Weight	• 0.95 kg (2.10 lbs)	• 1.77 kg (3.90 lbs)	• 3.75 kg (8.27 lbs)	• 3.94 kg (8.69 lbs)	• 6.26 kg (13.80 lbs)
Certifications	• CE, VCCI, FCC, cUL, BSMI, CCC, C-Tick				
MTBF	• 729,258 hours	• 1,274,005 hours	• 469,262 hours	• 277,967 hours	• 236,406 hours

Software		
L2 Features	• MAC Address Table • 8K entries • 16K entries (DGS-1210-52/52MP/FL only) • IGMP Snooping • IGMP v1/v2 Snooping • IGMP v3 awareness • Supports 256 IGMP groups • Supports at least 64 static multicast addresses • IGMP per VLAN • Supports IGMP Snooping Querier • Loopback Detection • 802.3ad Link Aggregation: • DGS-1210-10/10P/10MP/FL: Supports maximum 4 groups per device and 8 ports per group • DGS-1210-20/26/28/28P/28MP/FL: Supports maximum 8 groups per device and 8 ports per group • DGS-1210-52/52MP/FL: Supports max 16 groups per device and 8 ports per group • LLDP	• LLDP-MED • Jumbo Frame • Up to 10,000 bytes • Spanning Tree Protocol • 802.1D STP • 802.1W RSTP • 802.1s MSTP • Flow Control • 802.3x Flow Control • HOL Blocking Prevention • Port Mirroring • One-to-One • Many-to-One • Supports Mirroring for Tx/Rx/Both • Multicast Filtering • Forwards all unregistered groups • Filters all unregistered groups • Configurable MDI/MDIX • MLD snooping v1/v2 (256 groups)
VLAN	• 802.1Q • VLAN Group: max. 256 static VLAN groups • ISM VLAN • Configurable VID from 1 - 4094 • Asymmetric VLAN	• Voice VLAN • Auto Surveillance VLAN • Double VLAN (Q-in-Q) • Port-based Q-in-Q • Selective Q-in-Q
Quality of Service (QoS)	• 802.1p Quality of Service • 8 queues per port • Queue Handling • Strict • Weighted Round Robin (WRR) • Bandwidth Control • Port-based (ingress/egress, min granularity 10/100/1000 is 16 Kbps)	• QoS based on: • 802.1p priority queues • DSCP • MAC address • EtherType • IP address • Protocol type • ToS • IP preference • IPv6 Traffic Class • TCP/UDP port
L3 Features	• IP interface • Supports 4 interfaces • IPv6 Neighbor Discovery (ND)	
Access Control List (ACL)	• Max. 50 access lists • Max. 768 rules shared by IPv4, MAC, and IPv6 • Each rule can only be associated with a single port • ACL based on • MAC address • 802.1p priority mask • VID mask • Source/destination MAC address mask • EtherType mask • IP address • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask	• IPv6 address • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask • IPv6 traffic class mask

Security Features	• Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • Traffic segmentation • SSH v2 • DoS attack prevention • 802.1X Port-based Access Control • Port Security • Supports up to 64 MAC addresses per port • IP-MAC-Port Binding (Smart Binding) • ARP Inspection • DHCP Snooping	
AAA	• 802.1X Authentication • Supports local/RADIUS database • Supports port-based access control • Supports EAP, OTP, TLS, TTLS, PEAP • Support MD5 authentication	
OAM	• Cable diagnostics	• Factory reset
Management	• Web-based GUI • CLI • Telnet Server • SSH Server • TFTP Client • Configurable MDI/MDIX • SNMP • Supports v1/v2c/v3 • SNMP Trap • Backup/upgrade firmware • Upload/download configuration file • BootP/DHCP Client • System Log	• SNMP • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • Time setting • SNTP • RMONv1 • Dual Image • DHCP Relay • DHCP relay agent/local relay • DHCP relay option 82
Green V3.0 Technology	• Power Saving by: • Link Status • System hibernation • Port shut off	• Cable length detection
MIB/RFC	• RFC783, 1350 TFTP • RFC791 IP • RFC768 UDP • RFC793 TCP • RFC792 ICMPv4 • RFC2463, 4443 ICMPv6 • RFC826 ARP • RFC951, 1542, 2131 BootP/DHCP Client • RFC1213 MIB II • RFC1350 TFTP • RFC1493 Bridge MIB • RFC1769 SNTP • RFC1157, 2570, 2573, 2575, 2576 SNMP MIB • RFC1442, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 2578, 3418 SNMPv2 MIB • RFC1398, 1643, 1650, 2358, 2665 Ether-like MIB	• RFC1321, 2284, 2865, 2716, 3580 Extensible Authentication Protocol (EAP) • RFC2674 802.1p MIB • RFC2461, 4861 Neighbor Discovery for IPv6 • RFC2462, RFC4862 IPv6 Stateless Address Auto-configuration (SLAAC) • RFC2464 IPv6 over Ethernet and definition • RFC4291 IPv6 Addressing Architecture • RFC2893, 4213 IPv4/IPv6 dual stack function • RFC2138, 2139, 2618, 2865 RADIUS Authentication Client MIB • RFC2475, 2598 CoS • RFC3164, 3195 System Log • RFC3411, 3412, 3413, 3414, 3415, 3416, 3417 SNMPv3 • Private MIB

Order Information	
DGS-1210-10/FL	8 10/100/1000 Mbps ports and 2 100/1000 Mbps SFP ports
DGS-1210-10P/FL	8 10/100/1000 Mbps PoE ports and 2 100/1000 Mbps SFP ports
DGS-1210-10MP/FL	8 10/100/1000 Mbps PoE ports and 2 100/1000 Mbps SFP ports
DGS-1210-20/FL	16 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-26/FL	24 10/100/1000 Mbps ports and 2 100 Mbps/1 Gbps SFP ports
DGS-1210-28/FL	24 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-28P/FL	24 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-28MP/FL	24 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-52MP/FL	48 10/100/1000 Mbps PoE ports and 4 100 Mbps/1 Gbps combo ports
DGS-1210-52/FL	48 10/100/1000 Mbps ports and 4 100 Mbps/1 Gbps combo ports
Optional SFP Transceivers	
DGS-712	1000BASE-T copper
DEM-302S-LX	1000BASE-LX, single-mode, 2 km
DEM-302S-BXD/BXU	Gigabit WDM transceiver, single-mode, 2 km
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	100BASE-ZX, single-mode, 80 km
DEM-330T/R	Gigabit WDM transceiver, single-mode 10 km
DEM-331T/R	Gigabit WDM transceiver, single-mode 40 km
DEM-210	100BASE-FX, single-mode, 15 km
DEM-211	100BASE-FX, multi-mode, 2 km
DEM-220T/R	Fast Ethernet WDM transceiver, single-mode, 20 km

DGS-1210/FL Series L2 Managed Switches

D-View 7 Order Information	
Part Number	Description
DV-700-N25-LIC	D-View 7 - 25 node license
DV-700-N50-LIC	D-View 7 - 50 node license
DV-700-N100-LIC	D-View 7 - 100 node license
DV-700-N250-LIC	D-View 7 - 250 node license
DV-700-N500-LIC	D-View 7 - 500 node license
DV-700-N1000-LIC	D-View 7 - 1000 node license
DV-700-P5-LIC	D-View 7 - 5 probe license
DV-700-P10-LIC	D-View 7 - 10 probe license
DV-700-P25-LIC	D-View 7 - 25 probe license
DV-700-P50-LIC	D-View 7 - 50 probe license
DV-700-P100-LIC	D-View 7 - 100 probe license

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