

Highlights

Seamless Integration

With a large variety of port configurations including PoE support and SFP ports, allowing business to buil and expand a flexible and adaptive network

Manageability

Advanced management functions make for a truly versatile series of switches that integrate performance and scalability

IPv6 Ready

Fully IPv6 compatible and ready for enterprise deployment, giving you a head start on the next Internet standards evolution



DGS-1210 Series

Gigabit Smart Managed Switches

Features

Green Technology

- Power saving via the following features:
 - · Link Status detection
 - LED Shut-Off
 - Port Shut-Off
 - System Hibernation
 - Time-based PoE (DGS-1210-10P/28P/28MP/52P/52MP)

Security Features

- · Access Control List secures network
- D-Link Safeguard Engine protects the CPU from Broadcast/Multicast/Unicast Flooding
- Port Security supports 64 MACs per port
- ARP Spoofing Prevention

Intuitive Management

- D-Link Network Assistant Utility or web-based GUI
- Built-in SNMP MIB for remote NMS (D-View 7.0)
- Command Line Interface (CLI) through Telnet

Advanced Features

- Auto Surveillance VLAN
- Loopback Detection automatically disables a port when a loop is detected
- Cable Diagnostics allows administrators to determine cable status
- SFP ports for flexibility
- Auto MDI/MDIX

D-Link's DGS-1210 Series Gigabit Smart Managed Switches integrates advanced management as well as security functions that provide performance and scalability. Management options for the switch include SNMP, Web Management, D-Link Network Assistant Utility, and compact command lines. The DGS-1210 Series uses Auto Voice VLAN, ensuring bandwidth is prioritised for a smoother voice performance. The DGS-1210-10/10P/20/28 features a fanless design that allows for quieter operation and helps to extend the device's lifetime, while the DGS-1210-28P/28MP/52/52P/52MP feature a smart fan design that adjusts the fan speed depending on device temperature, saving energy and cutting costs without sacrificing performance.

The DGS-1210 Series includes a range of high power budget PoE-enable switches for businesses looking to power VoIP phones, wireless access points or network cameras. The DGS-1210-10P is a 8-port Smart Managed PoE+ Switch that provides 8 PoE-enabled ports that can supply power of up to 30 W each. Whereas the DGS-1210-28P/28MP/52P/52MP are Smart Managed PoE+ switches with power budgets of 193/370 W, that provides 24/48 PoE-enabled ports with 4/8 ports that support up to 30 W of power output following IEEE 802.3at standard. The design allows more flexibility in power allocation for a variety of powered devices with affordable installation costs.

Extensive Management and Layer 2 Features

Equipped with a complete line-up of L2 features, the DGS-1210 Series includes 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. At 2000 Mbps full duplex, the Gigabit ports provide high-speed data pipes to servers with minimum impact to data transfer fidelity. Network maintenance features include loopback detection and cable diagnostics. Loopback detection is used to detect loops created by a specific port and automatically shut down the affected port. The cable diagnostic feature, designed primarily for administrators and customer service representatives, can rapidly discover errors and determine the cable quality, allowing hassle free diagnostics and maintenance.



Quality of Service and Bandwidth Control

The DGS-1210 Series supports Auto Surveillance VLAN (ASV), and Auto Voice VLAN, which are best suited for VoIP and video surveillance deployments. Auto Surveillance VLAN is a new, industry-leading technology that the DGS-1210 Series Gigabit Smart Managed Switches provides. This technology consolidates data and surveillance video transmission through a single DGS-1210 Series, thus sparing businesses the expense of dedicated hardware and facilities. ASV also ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data. The Auto Voice VLAN technology enhances the VoIP service by automatically placing voice traffic from an IP phone to an assigned VLAN. With higher priority and individual VLAN, these features guarantee the quality and security of VoIP traffic. The DSCP markings on Ethernet packets enable different levels of service to be assigned to network traffic. As a result, these voice and video packets take precedence over other packets. In addition, with bandwidth control, network administrators can reserve bandwidth for important functions that are higher priority or require a larger bandwidth.

Secure your Network

D-Link's innovative Safeguard Engine protects the switches against traffic flooding caused by virus attacks. The DGS-1210 Series supports 802.1X port based authentication, allowing the network to be authenticated through external RADIUS servers. In addition, the Access Control List (ACL) feature enhances network security and helps to protect the internal IT network. The DGS-1210 Series includes ARP spoofing prevention, which protects from attacks on the network that may allow an intruder to sniff data frames, modify traffic, or bring traffic to a halt altogether by sending fake ARP messages. To prevent ARP spoofing attacks, the switch uses packet control ACLs to block invalid packets that contain fake ARP messages. For added security, the DHCP server screening feature routes DHCP server packets from user ports to prevent unauthorised IP assignment.

Versatile Management

The DGS-1210 Series provides a D-Link Network Assistant Utility that enables administrators to remotely control their network down to the port level. The D-Link network assistant utility allows customers to easily discover multiple D-Link Smart Managed Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC. It also simplifies the initial setup by taking switches, within the same L2 network segment, that are connected to the user's PC, and displaying them on screen for instant access. This allows extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades. The DGS-1210 Series also supports D-View 7 and Compact Command Line Interface (CLI) through Telnet. D-View 7 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

Energy Saving

Incorporating D-Link Green technology, the DGS-1210 Series switches are capable of power-saving without sacrificing operational performance or functionality. Link status drastically reduces power consumption by automatically toggling ports without a link to sleep mode. The DGS-1210 Series takes the approach to green IT one step further by incorporating a special chipset with advanced silicon technology for efficient use of energy.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.



Technical Specification	s			
General				
Model Number	• DGS-1210-10	• DGS-1210-20	• DGS-1210-28	• DGS-1210-52
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
Port Standards	IEEE 802.3 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			
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	• 56 Gbps	• 104 Gbps
Transmission Method	Store-and-forward			
MAC Address Table	• 16,000 entries per device			
Maximum 64 bytes packet forwarding rate	• 14.88 Mpps	• 29.8 Mpps	• 41.7 Mpps	• 77.4 Mpps
Packet Buffer Memory	• 1.5 MB	• 1.5 MB	• 1.5 MB	• 3.0 MB
CPU Memory	• 128 MB DDR3			
Flash Memory	• 16 MB			
Physical/Environmental				
AC Input	• 100 to 240 VAC 50/60 Hz internal universal power supply			
Maximum Power Consumption	• 13.59 W	• 16.09 W	• 22.45 W	• 38.27 W
Standby Power Consumption	• 100 V: 9.3 W • 240 V: 9.4 W	• 100 V: 8.59 W • 240 V: 8.80 W	• 100 V: 17.65 W • 240 V: 17.84 W	• 100 V: 29.44 W • 240 V: 29.49 W
Acoustics	• 0 dBA	• 0 dBA	• 0 dBA	Low speed: 39.8 dBAHigh speed: 49.2 dBA
Heat Dissipation	• 46.37 Btu/hr	• 54.91 Btu/hr	• 76.55 Btu/hr	• 130.58 Btu/hr
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			
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 210 x 44 mm (17.32 x 8.27 x 1.73 in)
Weight	• 1.54 kg (3.39 lbs)	• 1.28 kg (2.82 lbs)	• 1.67 kg (3.68 lbs)	• 2.58 kg (5.69 lbs)
Diagnostic LEDs	• Link/Activity/Speed (per 10/100/1000 Mbps port)			
Certifications	BSMI, CCC, C-Tick, CE Class A, VCCI Class A, FCC Class A, cUL, CE (LVD)			
MTBF	• 360,844 hours	• 317,412 hours	• 540,000 hours	• 481,624 hours



General			
Model	• DGS-1210-10P	• DGS-1210-28P	• DGS-1210-28MP
Interfaces	• 8 x 10/100/1000 Mbps PoE ports • 2 x SFP ports	• 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 8 compliant with 802.3at	 Ports 1 to 4 compliant with 802.3at Ports 5 to 24 compliant with 802.3af 	• Ports 1 to 24 compliant with 802.3a
Other Port Standards & Functions	• IEEE 802.3 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		
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	• 40 Gbps	• 56 Gbps	• 56 Gbps
Transmission Method		Store-and-forward	
MAC Address Table	• 16,000 entries per device		
MAC Address Update		Up to 256 static MAC entries	
Maximum 64 bytes packet forwarding rate	• 14.88 Mpps	• 41.7 Mpps	• 41.7 Mpps
Packet Buffer Memory	• 1.5 MB	• 1.5 MB	• 1.5 MB
CPU Memory	• 128 MB DDR3	• 128 MB DDR3	• 256 MB DDR3
Flash Memory	• 16 MB	• 16 MB	• 32 MB
Physical/Environmental			
AC Input	• 100	to 240 VAC 50/60 Hz internal universal power si	upply
Maximum Power Consumption	• 103.4 W (PoE on) • 17.9 W (PoE off)	• 251.3 W (PoE on) • 26.3 W (PoE off)	• 454.4 W (PoE on) • 33.1 W (PoE off)
Maximum PoE Budget	• 78 W	• 193 W	• 370 W
Standby Power Consumption	• 100 V: 10.3 W • 240 V: 11.1 W	• 100 V: 24 W/ • 240 V: 21.9 W	• 100 V: 23.4 W • 240 V: 21.8 W
Acoustics	• 0 dBA	Low speed: 47 dBA High speed: 52.4 dBA	Low speed: 47.94 dBA High speed: 52.41 dBA
Heat Dissipation	• 352.63 Btu/hr	• 840.89 Btu/hr	• 1,552.32 Btu/hr
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		
Dimensions (L x W x H)	• 280 x 180 x 44 mm (11.02 x 7.08 x 1.73 in)	• 444 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)
Weight	• 1.41 kg (3.1 lbs)	• 2.54 kg (5.60 lbs)	• 3.86 kg (8.51 lbs)
Diagnostic LEDs	Link/Activity/Speed (per 10/100/1000 Mbps port) Power Fail/Power Ok (per PoE port)		
Certifications	• CE Class A, VCCI Class A, FCC Class A, BSMI, C-Tick, cUL, CE (LVD), CCC		
MTBF	• 315,336 hours	• 239,236 hours	• 271,281 hours



General			
Model	• DGS-1210-52P	• DGS-1210-52MP	
Interfaces	 24 x 10/100/1000 Mbps PoE ports 24 x 10/100/1000 Mbps ports 4 x SFP ports 	• 48 x 10/100/1000 Mbps PoE ports • 4 x SFP ports	
Port Standards & Functions	Ports 1 to 8 compliant with 802.3atPorts 9 to 24 compliant with 802.3af	Ports 1 to 8 compliant with 802.3at Ports 9 to 48 compliant with 802.3af	
Other Port Standards & Functions	• IEEE 802.3 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		
Network Cables	• UTP Cat. 5, Cat	t. 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	• 104	Gbps	
Transmission Method	• Store-an	d-forward	
MAC Address Table	• 16,000 entries per device		
MAC Address Update	• Up to 256 static MAC entries		
Maximum 64 bytes packet forwarding rate	• 77.4 Mpps		
Packet Buffer Memory	• 3.0 MB		
CPU Memory	• 128 MB DDR3		
Flash Memory	• 16 MB		
Physical/Environmental			
AC Input	• 100 to 240 VAC 50/60 Hz int	ernal universal power supply	
Maximum Power Consumption	270.2 W (PoE on)46.5 W (PoE off)	• 483.1 W (PoE on) • 48.9 W (PoE off)	
Maximum PoE Budget	• 193 W	• 370 W	
Standby Power Consumption	• 100 V: 29.6 W • 240 V: 28.2 W	• 100 V: 29.5 W • 240 V: 27.5 W	
Acoustics	Low speed: 37.8 dBAHigh speed: 47.3 dBA	Low speed: 40.4 dBAHigh speed: 50.1 dBA	
Heat Dissipation	• 912.96 Btu/hr	• 1,648.23 Btu/hr	
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		
Dimensions (L x W x H)	• 440 x 430 x 44 mm (17.32 x 16.9 x 1.73 in)		
Weight	• 5.66 kg (12.47 lbs)		
Diagnostic LEDs	Link/Activity/Speed (per 10/100/1000 Mbps port) Power Fail/Power Ok (per PoE port)		
Certifications	• CE Class A, VCCI Class A, FCC Class A, BSMI, C-Tick, cUL, CE (LVD), CCC		
MTBF	• 220,722 hours	• 318,616 hours	



Software		
L2 Features	MAC Address Table 16K entries IGMP Snooping IGMP v1/v2 Snooping 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 28/28P: Maximum of 14 groups/8 ports per group DGS-1210 52/52MP/52P: Maximum of 26 groups/8 ports per group DGS-1210-10/10P: Maximum of 5 groups/8 ports per group LLDP LLDP-MED Jumbo Frame Up to 9,216 bytes	Spanning Tree Protocol 802.1D STP 802.1W RSTP 802.1s MSTP (for DGS-1210-28MP only) 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 Configurable VID from 1 - 4094 Asymmetric VLAN	Auto Voice VLAN Max. 10 user-defined OUI Max. 8 default OUI Auto Surveillance VLAN
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 64 Kbps)	 QoS based on: 802.1p Priority Queues DSCP ToS IPv6 Traffic Class TCP/UDP port
L3 Features	IP Interface Supports 1 interface IPv6 Neighbor Discovery (ND)	Static Routing (for DGS-1210-28MP only) 64 IPv4 Static Route Entries 32 IPv4 Static Route Entries
Access Control List (ACL)	 Max. 50 access list Max. 768 rules shared by IPv4, MAC and IPv6 Each rule can only be associated with a single port ACL based on 802.1p priority VLAN MAC address 	 Ether type IP address DSCP Protocol type TCP/UDP port number IPv6 Traffic Class
Security	Broadcast/Multicast/Unicast Storm Control D-Link Safeguard Engine DHCP Server Screening IP-MAC-Port Binding (Smart Binding) Supports 512 address binding entries ARP Inspection ARP + IP Inspection Supports DHCP Snooping 802.1X Port-based Access Control	 ARP Spoofing Prevention Max. 64 entries Traffic Segmentation SSH v2 SSL Supports v1/v2/v3 Port Security Supports up to 64 MAC addresses per port Duplicate address detection
AAA	802.1X Authentication Supports local/RADIUS database Supports port-based access control Supports EAP, OTP, TLS, TTLS, PEAP	IPv6 RADIUS Server Support MD5 authentication

MIB/RFC Standards	 RFC 783 TFTP RFC 951 BootP/DHCP Client RFC 1157 SNMP v1, v2, v3 RFC 1213 MIB II RFC 1215 MIB Traps Convention RFC 1350 TFTP RFC 1493 Bridge MIB RFC 1769 SNTP RFC 1542 BootP/DHCP Client RFC 1901 SNMP v1, v2, v3 RFC 1907 SNMP v2 MIB RFC 1908 SNMP v1, v2, v3 RFC 2131 BootP/DHCP Client RFC 2138 RADIUS Authentication RFC 2139 RADIUS Authentication RFC 2233 Interface Group MIB 	 RFC-2246 SSL RFC 2475 RFC 2570 SNMP v1, v2, v3 RFC 2575 SNMP v1, v2, v3 RFC 2598 CoS RFC 2618 RADIUS Authentication RFC 2819 RMON v1 RFC 2865 RADIUS Authentication RFC 3164 System Log RFC 3195 System Log RFC 3411-17 SNMP D-Link Private MIB LLDP MIB Zone Defense MIB 2233 Interface Group MIB
OAM	Cable Diagnostics	Factory Reset
Management	Web-based GUI D-Link Network Assistant Utility Compact CLI Telnet Server TFTP Client Configurable MDI/MDIX SNMP Supports v1/v2c/v3 SNMP Trap Backup/Upgrade firmware Smart Wizard Upload/Download Configuration file	 System Log Max. 500 log entries BootP/DHCP Client SNTP ICMP v6 IPv4/v6 Dual Stack DHCP Auto Configuration Time Setting SNTP RMONv1 Trusted Host Dual Image (for DGS-1210-28MP only)
Green V3.0 Technology	Power Saving by: Link Status Time-based PoE: PoE ports can be turned on/off by port or system through schedule	 LED Shutoff System Hibernation Port Shutoff
Optional SFP Transce	ivers	
DEM-310GT	1000BASE-LX, single-mode, 10 km	
DEM-311GT	1000BASE-SX, multi-mode, 550 m	
DEM-312GT2	1000BASE-SX, multi-mode, 2 km	



For more information: www.dlink.com

