

Product Highlights

Flexible Connectivity Options

- 16, 24 or 48 10/100/1000BASE-T ports
- 4 Gigabit SFP ports
- PoE+ (802.3at) support on DGS-1210-28P

Traffic Prioritization for Voice and Video

 Auto Surveillance VLAN (ASV) and Auto Voice VLAN ensure security and telephone systems have highest priority

IPv6 Support

- IPv6 Ready Phase II
- IPv6 ACL

Energy Efficient Technology

• IEEE 802.3az EEE and D-Link Green 3.0 technology help reduce energy use and operating costs

DGS-1210 Series

Web Smart Switch

Features

Security

- Access Control List
- D-Link Safeguard Engine
- Port Security
- ARP Spoofing Prevention
- · Smart IP-MAC-Port Binding
- DHCP Server Screening

Management

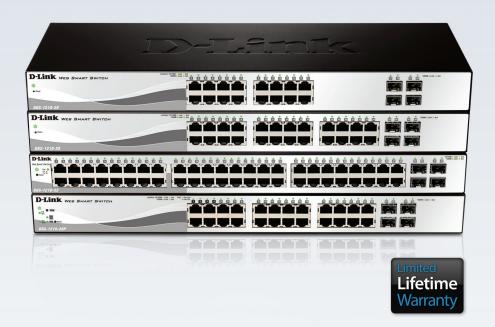
- IPv4/ IPv6 Dual Stack
- Web GUI (supports 10 languages)
- SmartConsole utility
- SNMP and RMON
- Simplified CLI through Telnet

Oos

- Supports IEEE 802.1p QoS
- Supports DSCP

Advanced Features

- Auto Surveillance VLAN
- Auto Voice VI AN
- Port or VLAN-based Loopback Detection
- Cable Diagnostics
- LLDP/LLDP-MED



Overview

The DGS-1210 Series is the latest generation of D-Link Gigabit Web Smart Switches featuring D-Link Green 3.0 technology. The switches comply with the IEEE 802.3az Energy Efficient Ethernet standard. Support for IPv6 management and configuration features ensures your network remains protected after an upgrade from IPv4 to IPv6. By offering multiple management options, these switches allow quick deployment, infrastructure expansion, and seamless upgrades. Targeting small and medium sized businesses, the DGS-1210 Web Smart switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The DGS-1210 Series switches support 16, 24, or 48 10/100/1000BASE-T ports. In addition, each switch supports 4 Gigabit SFP ports for optical connections using multimode or singlemode SFP transceivers.

PoE Support

One model in the DGS-1210 series family, the DGS-1210-28P, delivers Power-over-Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points, and other powered devices. It supports 802.3at on its first four ports (30W max per port) and supports 802.3af on ports 5 through 24 (15.4W max. per port.) Its total power budget is 185W. Using the product's management interface, an administrator can control various PoE functions, such as remotely rebooting cameras or access points, from anywhere on the network, including over the Internet. The switches also support time-based PoE – an option that allows administrators to set a time window that determines when each port's PoE power is turned on and off.



Energy Saving

The DGS-1210 Series Switches are capable of conserving power without sacrificing operational performance or functionality by using D-Link Green 3.0 technology. Using the Energy Efficient Ethernet standard, the network will automatically decrease the power usage when traffic is low with no setup required. For environments not fully supporting the standard, these switches offer advanced power-saving settings including port shutoff and standby, LED shutoff, and system hibernation based on custom time profiles. The time profiles can also be applied to the PoE switches so that unnecessary power consumption can be saved during off hours. The switches can also detect the length of connected cables to automatically reduce power usage on shorter cable connections.

Easy Management

The D-Link Web Smart Switch series is designed for easy management. All configurations can be made through a Web interface regardless of the host PC's operating system. Furthermore, the web UI contains ten language options to make operations more straightforward. In the intial installation, the Smart Console Utility will automatically discover all D-Link Smart switches in the network, allowing administrators to assign IP addresses and subnet masks quickly. It also allows simultaneous firmware upgrades to multiple switches, saving a great deal of time. Important management commands, such as download firmware or configuration file, can be completed using batch operations for multiple switches.

Auto Surveillance VLAN and Voice VLAN

The D-link Web Smart series automates the process of setting up IP surveillance and VoIP devices on a network. Auto Surveillance VLAN consolidates data and surveillance video transmission through the network, sparing businesses the expense of maintaining dedicated facilities. ASV also protects the quality of real-time video by grouping IP surveillance devices on a single high priority VLAN. This ensures that surveillance video streams will not be affected when ordinary data traffic is at a high level. Similarly, the Auto Voice VLAN guarantees clear quality and efficient transmission for all voice communication.

Extensive Layer 2 Features

Equipped with a complete lineup of L2 features, these switches include IGMP Snooping, Port Mirroring, Spanning Tree, 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 transfer. At 2000 Mbps Full Duplex, the Gigabit ports provide high-speed data pipes to servers with minimum data transfer loss. 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 the type of error and determine the cable quality.

Secure your Network

D-Link's innovative Safeguard Engine protects the switches against traffic flooding caused by virus attacks. The switches also support 802.1X port-based authentication, allowing the network clients to be authenticated through external RADIUS servers. In addition, the Access Control List (ACL) feature enhances network security and protects the network by screening traffic from illegal MAC or IP addresses. ARP Spoofing Prevention prevents malicious intruders from sending massive fake ARP messages through a manipulated source. This protects important data from being stolen by Man-in-the-Middle attacks, and prevents wasting CPU cycles on these packets. For added security, the DHCP Server Screening feature blocks rogue DHCP server packets from user ports to prevent unauthorized IP assignment.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1210 Series Web Smart switches to further its commitment to product quality and long-term customer confidence. The Limited Lifetime Warranty applies for as long as the original customer owns the product or five (5) years after product discontinuance, whichever occurs first.













Technical Specifications	DGS-1210-20	DGS-1210-28	DGS-1210-52
General			
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		
Number of Ports	• 16 10/100/1000 Mbps • 4 SFP	• 24 10/100/1000 Mbps • 4 SFP	• 48 10/100/1000 Mbps • 4 SFP
Network Cables		• UTP Cat. 5, Cat. 5e (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max	.)
Full/Half Duplex	• Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed		
Media Interface Exchange		Auto or configurable MDI/MDIX	
Performance			
Switching Capacity	40 Gbps	56 Gbps	104 Gbps
Transmission Method	Store-and-forward		
MAC Address Table	16,000 entries per device		
MAC Address Update	Up to 256 static MAC entries Enable/disable auto-learning of MAC addresses		
Maximum 64 bytes packet forwarding rate	29.8 Mpps	41.7 Mpps	77.4 Mpps
Packet Buffer Memory	1 MB per device		
Physical & Environment			
AC Input	100 to 240 VAC 50/60 Hz internal universal power supply		er supply
Maximum Power Consumption	14.06 W	16.81 W	43.5 W
Standby Power Consumption	6.7 W/110 V, 7.2 W/240 V	5.9 W/110 V, 6.42 W/240 V	20.68 W/110 V, 22.05 W/240 V
Fan Quantity	0	0	Two smart fans
Acoustics	0 dB(A)	0 dB(A)	47.1 dB(A)
Heat Dissipation	47.97 BTU/hr	57.36 BTU/hr	148.42 BTU/hr
Operating Temperature	41 to 122 °F (-5 to 50 °C)		
Storage Temperature	-4 to 158 °F (-20 to 70°C)		
Operating Humidity	0% to 95% non-condensing		
Storage Humidity	0% to 95% non-condensing		
Dimensions	• 17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 9.84 x 1.73 inches (440 x 250 x 44 mm) • 19" standard rack mounting width, 1U height



DGS-1210 Series Web Smart Switch







Weight	4.85 lbs (2.2 kg)	6.39 lbs (2.9 kg)	9.04 lbs (4.1 kg)
Diagnostic LEDs	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port)	 Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port) 	Power (per device) Link/Activity/Speed (per 10/100/1000 Mbps port) Link/Activity/Speed (per SFP port) Fan (per device)
MTBF	253,460 hours	236,739 hours	201,517 hours
Certifications	• FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI		
Safety		• cUL • CE LVD	







Technical Specifications	DGS-1210-28P	
General		
Port Standards & Functions	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3af compliance • IEEE 802.3at compliance • IEEE 802.3at compliance • IEEE 802.3at 1000BASE-T (Gigabit Ethernet) • Auto-negotiation • IEEE 802.3x Flow Control for Full-Duplex Mode	
Number of Ports	• 24 10/100/1000 Mbps • 4 SFP	
Network Cables	• UTP Cat. 5, Cat. 5e, Cat 6 (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.)	
Full/Half Duplex	• Full/half duplex for 10/100 Mbps speeds • Full duplex for Gigabit speed	
Media Interface Exchange	Auto or configurable MDI/MDIX	
Performance		
Switching Capacity	56 Gbps	
Transmission Method	Store-and-forward	
MAC Address Table	16,000 entries per device	
MAC Address Update	 Up to 256 static MAC entries Enable/disable auto-learning of MAC addresses 	
Maximum 64 bytes packet forwarding rate	41.7 Mpps	
Packet Buffer Memory	1 MB per device	
РоЕ		
PoE Standard	IEEE 802.3af and IEEE 802.3at	
PoE Capable Ports	• Ports 1 to 4: Up to 30 W • Ports 5 to 24: Up to 15.4 W	
PoE Power Budget	Max. 185 W	
Physical & Environment		
AC Input	100 to 240 VAC 50/60Hz internal power supply	
Maximum Power Consumption	238.4 W (PoE on), 27.4 W (PoE off)	
Standby Power Consumption	16 W/110 V, 14 W/240 V	
Fan Quantity	Three smart fans	
Acoustics	52.2 dB(A)	
Heat Dissipation	813.42 BTU/hr	
Operating Temperature	41 to 122 °F (-5 to 50 °C)	
Storage Temperature	-4 to 158 °F (-20 to 70°C)	







Operating Humidity	0% to 95% non-condensing	
Storage Humidity	0% to 95% non-condensing	
Dimensions	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 inches) • 19" standard rack mounting width, 1U height	
Weight	3.7 kg (8.15 lbs)	
Diagnostic LEDs	Power (per device) PoE Max (per Device) Link/Activity/Speed (per 10/100/1000Base-T port) Link/Activity/Speed (per SFP port) Fan (per device) Button to switch LED display mode between PoE and Link/Activity	
MTBF	224,530 hours	
Certifications	• FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI	
Safety	• cUL • CE LVD	





L2 Features	MAC Address Table	Loopback Detection
	- 16,000 entries	802.3ad Link Aggregation
	• Flow Control	- DGS-1210-20: Max. 10 groups per device / 8 ports per grou
	- 802.3x Flow Control	- DGS-1210-28/28P: Max. 14 groups per device / 8 ports
	- HOL Blocking Prevention	per group
	•IGMP Snooping	- DGS-1210-52: Max. 26 groups per device / 8 ports per group
	- IGMP v1/v2 Snooping	• Port Mirroring
	- Supports 256 IGMP groups	- One-to-One, Many-to-One
	- Supports at least 64 static multicast addresses	- Supports Mirroring for Tx/Rx/Both
	- IGMP per VLAN	Multicast Filtering
	- Supports IGMP Snooping Querier	- Forwards all unregistered groups
	Spanning Tree Protocol	- Filters all unregistered groups
	- 802.1D STP	• LLDP, LLDP-MED
	- 802.1w RSTP	
VLAN	•802.1Q	Asymmetric VLAN
	•VLAN Group	Auto Voice VLAN
	- Max. 256 static VLAN groups	- Max. 10 user-defined OUI
	- Max. 4094 VIDs	- Max. 8 default OUI
	Management VLAN	Auto Surveillance VLAN
QoS (Quality of Service)	• 802.1p Quality of Service	• CoS based on
Q03 (Quality of Service)		
	• 4 queues per port	- 802.1p Priority Queues
	• Queue Handling	- DSCP
	- Strict	-ToS
	- Weighted Round Robin (WRR)	- TCP/UDP Port Number
		- IPv6 Traffic Class
		Bandwidth Control
		 Port-based (Ingress/Egress, min. granularity for 10/100/1000Base-T ports is is 64 Kb/s)
Access Control List (ACL)	• DGS-1210-20/28/28P:	• ACL based on
recess correct rise (rece)	- Max. 50 profiles	- MAC Address
	- Max. 240 rules shared by profiles	- IPv4 Address (ICMP/IGMP/TCP/UDP)
	- Single or multiple ports (each rule)	- IPv6 Address (ICMP/TCP/UDP)
	• DGS-1210-52:	- 802.1p
	- Max. 50 profiles	- DSCP
	- Max. 450 rules shared by profiles	- Ether type
		- IPv6 Traffic Class
		ACL Actions
		- Permit
		- Deny
Security	Port Security	• SSL
	- Supports up to 64 MAC addresses per port	- Supports v1/v2/v3
	Broadcast/Multicast/Unicast Storm Control	- Supports V1/V2/V3 - Supports IPv4/IPv6
	• Static MAC	• Traffic Segmentation
	D-Link Safeguard Engine	• Smart Binding
	DHCP Server Screening	- Supports 512 entries of IP-MAC-Port binding
	• Trusted Host	- Discover connected devices and click to bind
	ARP Spoofing Prevention May 64 ontring	- Inspect ARP packets and/or IP packets
	- Max. 64 entries	- Supports DHCP Snooping
AAA	• 802.1X Port-based Authentication	
	- Supports RADIUS Server	
OAM	Cable Diagnostics	Factory Reset



DGS-1210 Series Web Smart Switch

MIB	• 1213 MIB II	• 2233 Interface Group MIB	
	• 1493 Bridge MIB	D-Link Private MIB	
	• 1907 SNMP v2 MIB	Power-Ethernet MIB	
	• 1215 Trap Convention MIB	• LLDP MIB	
		D-Link Zone Defense MIB	
RFC Standard Compliance	• RFC 783 TFTP	RFC 2139 RADIUS Authentication	
	• RFC 854 Telnet Server	• RFC 2233 Interface Group MIB	
	• RFC 951 BootP/DHCP Client	• RFC 2246 SSL	
	• RFC 1157 SNMP v1, v2c, v3	• RFC 2475	
	• RFC 1213 MIB II, IF MIB	• RFC 2570 SNMP v1, v2c, v3	
	• RFC 1215 MIB Traps Convention	• RFC 2575 SNMP v1, v2c, v3	
	• RFC 1350 TFTP	• RFC 2598 CoS	
	• RFC 1493 Bridge MIB	• RFC 2616 FCS	
	RFC 1542 BootP/DHCP Client	• RFC 2618 RADIUS Authentication	
	• RFC 1769 SNTP	• RFC 2819 RMON v1	
	• RFC 1901 SNMP v1, v2c, v3	 RFC 2865 RADIUS Authentication 	
	• RFC 1907 SNMP v2c MIB	• RFC 3164 System Log	
	• RFC 1908 SNMP v1, v2c, v3	• RFC 3195 System Log	
	• RFC 2068 FCS	• RFC 3411-17 SNMP	
	RFC 2131 BootP/DHCP Client	• RFC 3621 Power Ethernet MIB	
	• RFC 2138 RADIUS Authentication		
Management	Multi-Language Web-based GUI	•TFTP Client	
3	- English (default)	• IPv6 Neighbor Discovery	
	- Simplified Chinese	Configurable MDI/MDIX	
	- Traditional Chinese	• SNMP	
	- French	- Supports v1, v2c, v3	
	- German	• SNMP Trap	
	- Italian	• System Log	
	- Japanese	- Max. 500 log entries	
	- Portuguese	BootP/DHCP Client	
	- Russian	• SNTP	
	- Spanish	• ICMPv6	
	SmartConsole Utility	• IPv4/v6 Dual Stack	
	Simplified CLI	 DHCP Auto Configuration 	
	•Telnet Server	• RMON v1	
		• Time-based PoE (PoE model only)	
D-Link Green 3.0 Technology	• Power Saving by:	- LED or Port Shutoff	
3,	- Link Status	- Port Standby mode	
	- Cable Length detection	- System Hibernation mode	

Warranty Information	
Warranty	Limited Lifetime ¹
Ordering Information	
Part Number	Description
DGS-1210-20	Web Smart 16-port Gigabit Switch plus 4 Gigabit SFP ports
DGS-1210-28	Web Smart 24-port Gigabit Switch plus 4 Gigabit SFP ports
DGS-1210-28P	Web Smart 24-port Gigabit PoE Switch plus 4 Gigabit SFP ports
DGS-1210-52	Web Smart 48-port Gigabit Switch plus 4 Gigabit SFP ports
Optional Products	
Optional SFP Transceivers	
DGS-712	1000BASE-T Copper
DEM-310GT	1000BASE-LX, Single-mode, 10 km
DEM-311GT	1000BASE-SX, Multi-mode, 550 m
Optional Software	
DV-600S	D-View 6.0 Network Management System (Standard Edition)
DV-600P	D-View 6.0 Network Management System (Professional Edition)

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 $^{^{\}mbox{\tiny 1}}$ Limited lifetime warranty available only in the U.S.A.