



Product Highlights

Flexible Connectivity Options

- 8, 16, 24 or 48 10/100/1000BASE-T ports
- 2 or 4 Gigabit SFP ports
- PoE+ (802.3at) support on select models

Traffic Prioritization for Voice and Video

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

IPv6 Support

- Fully IPv6 compatible and ready for enterprise deployment

Energy Efficient Technology

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



DGS-1210 Series

Gigabit Web Smart Switches

Features

Security

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

Management

- Web GUI
- D-Link Network Assistant Utility
- Simplified CLI through Telnet
- SNMP and RMON
- IPv4/ IPv6 Dual Stack

QoS

- Supports IEEE 802.1p Quality of Service
- Supports DSCP

Advanced Features

- Auto Surveillance VLAN
- Auto Voice VLAN
- 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 8, 16, 24, or 48 10/100/1000BASE-T ports. In addition, each switch supports 2 or 4 Gigabit SFP ports for optical connections using multimode or singlemode SFP transceivers.

PoE Support

Several models in the DGS-1210 series family support Power-over-Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points, and other powered devices. These models include the DGS-1210-10P, DGS-1210-28P and DGS-1210-52MP. Using the switch'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.



DGS-1210 Series Gigabit Web Smart Switches

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. For environments not fully supporting the standard, these switches offer advanced power-saving settings including port shutoff, 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.

Easy Management

The D-Link Web Smart Switch series is designed for easy management. All configuration can be performed through an intuitive browser-based Graphical User Interface regardless of the host PC's operating system. The DGS-1210 Series switches also support a D-Link Network Assistant Utility that enables administrators to remotely control their network down to the port level. This utility allows customers to easily discover multiple D-Link Web Smart 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. In addition, the DGS-1210 Series supports D-View® 6.0 and Compact Command Line Interface (CLI) through Telnet. D-View 6.0 is a network management system that allows for the central management of critical network characteristics such as availability, reliability, resilience, and security.

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.





Technical Specifications	DGS-1210-10	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	• 8 10/100/1000 Mbps • 2 SFP	• 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	20 Gbps	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	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
Physical & Environment				
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	9.3 W/110 V, 9.4 W/240 V	8.59 W/110 V, 8.80 W/240 V	17.65 W/110 V, 17.84 W/240 V	29.44 W/110 V, 29.49 W/240 V
Fan Quantity	0	0	0	Two smart fans
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)	Low speed: 39.8 dB(A) High speed: 49.2 dB(A)
Heat Dissipation	46.37 BTU/hr	54.91 BTU/hr	76.55 BTU/hr	130.58 BTU/hr
Operating Temperature	23 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			



DGS-1210 Series Gigabit Web Smart Switches



Dimensions	• 11.02 x 4.96 x 1.73 inches (280 x 126 x 44 mm) • 19" standard rack mounting width, 1U height	• 11.02 x 7.09 x 1.73 inches (280 x 180 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 8.27 x 1.73 inches (440 x 210 x 44 mm) • 19" standard rack mounting width, 1U height
Weight	3.39 lbs (1.54 kg)	2.82 lbs (1.28 kg)	3.68 lbs (1.67 kg)	5.69 lbs (2.58 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)	• Power (per device) • Link/Activity/Speed (per 10/100/1000 Mbps port) • Link/Activity/Speed (per SFP port) • Fan (per device)
MTBF	360,844 hours	317,412 hours	540,000 hours	481,624 hours
Certifications	• FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI			
Safety	• cUL • CE LVD			



Technical Specifications		DGS-1210-10P	DGS-1210-28P	DGS-1210-52MP
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 • IEEE 802.3af compliance • IEEE 802.3at compliance • Auto-negotiation			
Number of Ports	• 8 10/100/1000 Mbps PoE • 2 SFP	• 24 10/100/1000 Mbps PoE • 4 SFP	• 48 10/100/1000 Mbps PoE • 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	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	14.88 Mpps	41.7 Mpps	77.4 Mpps	
Packet Buffer Memory	1.5 MB	1.5 MB	3.0 MB	
PoE				
PoE Standard	IEEE 802.3af and IEEE 802.3at			
PoE Capable Ports	• Ports 1 to 8: Up to 30 W	• Ports 1 to 4: Up to 30 W • Ports 5 to 24: Up to 15.4 W	• Ports 1 to 8: Up to 30 W • Ports 9 to 48: Up to 15.4 W	
PoE Power Budget	Max. 78 W	Max. 193 W	Max. 370 W	



DGS-1210 Series Gigabit Web Smart Switches



Physical & Environment			
AC Input	100 to 240 VAC 50/60Hz internal power supply		
Maximum Power Consumption	103.4 W (PoE on), 17.9 W (PoE off)	251.3 W (PoE on), 21.9 W (PoE off)	483.1 W (PoE on), 48.9 W (PoE off)
Standby Power Consumption	10.3 W/110 V, 11.1 W/240 V	24 W/110 V, 21.9 W/240 V	29.5 W/110 V, 27.5 W/240 V
Fan Quantity	0	Two smart fans	Three smart fans
Acoustics	0 dB(A)	Low speed: 47 dB(A) High speed: 52.4 dB(A)	Low speed: 40.4 dB(A) High speed: 50.1 dB(A)
Heat Dissipation	352.63 BTU/hr	840.89 BTU/hr	1648.23 BTU/hr
Operating Temperature	23 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	• 11.02 x 7.08 x 1.73 inches (280 x 180 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 8.27 x 1.73 inches (440 x 210 x 44 mm) • 19" standard rack mounting width, 1U height	• 17.32 x 16.9 x 1.73 inches (440 x 430 x 44 mm) • 19" standard rack mounting width, 1U height
Weight	3.1 lbs (1.41 kg)	5.60 lbs (2.54 kg)	12.74 lbs (5.78 kg)
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	315,336 hours	239,236 hours	318,616 hours
Certifications	• FCC Class A • CE Class A • ICES-003 • VCCI Class A • C-Tick • BSMI		
Safety	• cUL • CE LVD		

Software Features

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: 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 • 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
QoS (Quality of Service)	• 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)
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 SNMP • 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 • SNMP • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • Time Setting • SNTP • RMONv1 • Trusted Host
D-Link Green 3.0 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

Warranty Information

Warranty	Limited Lifetime ¹
----------	-------------------------------

Ordering Information

Part Number	Description
DGS-1210-10	10-Port Gigabit Web Smart Switch including 2 Gigabit SFP ports
DGS-1210-10P	10-Port Gigabit Web Smart PoE+ Switch including 2 Gigabit SFP ports
DGS-1210-20	20-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28	28-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-28P	28-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports
DGS-1210-52	52-Port Gigabit Web Smart Switch including 4 Gigabit SFP ports
DGS-1210-52MP	52-Port Gigabit Web Smart PoE+ Switch including 4 Gigabit SFP ports

Optional SFP Transceivers

DGS-712	1000BASE-T Copper SFP Transceiver
DEM-310GT	1000BASE-LX Single-mode, SFP Transceiver up to 10 km
DEM-311GT	1000BASE-SX Multi-mode, SFP Transceiver up to 550 km

Optional Software

DV-600S	D-View 6.0 Network Management System (Standard Edition)
DV-600P	D-View 6.0 Network Management System (Professional Edition)

¹ Limited lifetime warranty available only in the U.S.A.

Last updated: 01/29/2015. Hardware REV C.

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | dlink.com

©2015 D-Link Corporation/D-Link Systems, Inc. All rights reserved. D-Link and the D-Link logo are registered trademarks of D-Link Corporation or its subsidiaries in the United States and/or other countries. Other trademarks or registered trademarks are the property of their respective owners.

Visit www.dlink.com for more details.

D-Link[®]
Building Networks for People