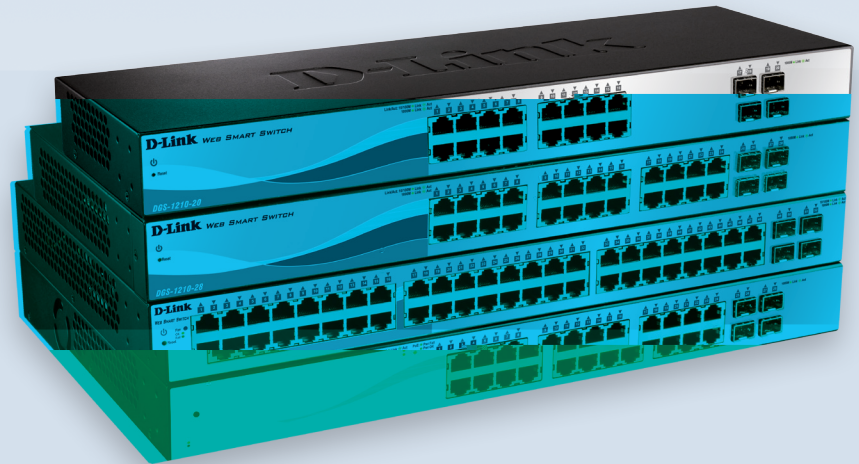


Product Highlights

- **D-Link Green 3.0**
Advanced power saving technologies
- **Robustness & Security**
IEEE802.1X port-based Access Control, Port Security, D-Link Safeguard Engine and Traffic Segmentation
- **Advanced QoS**
DSCP and Bandwidth Control
- **Useful L2 Features**
Equipped with a complete line up of L2 features, these switches include IGMP Snooping, Port Mirroring, Spanning Tree, and Link Aggregation Control Protocol (LACP)



DGS-1210 -20/28/28P/52

Gigabit Smart Switches

Key Features

Green Technology

- IEEE 802.3az Energy Efficient Ethernet
- D-Link Green 3.0 power-slaving features
- LED and Port Shutoff
- Port Standby
- System Hibernation
- Cable Length Detection
- Link Status Detection
- Time-based PoE (PoE model only)

Security Features

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

Intuitive Management

- IPv4/IPv6 Dual Stack¹
- Web GUI (supports 10 languages)
- SmartConsole utility
- SNMP and RMON
- Simplified CLI through Telnet

QoS

- Supports IEEE 802.1p QoS
- Supports DSCP

Advanced Features

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

Trap & Logs

- SNMP Trap
- Trap for SmartConsole Utility
- System Log

The DGS-1210 Series is the latest generation of D-Link Gigabit Smart Switches featuring D-Link Green 3.0 technology. The series complies with the IEEE 802.3az Energy Efficient Ethernet standard. Support for IPv6 management and configurations ensure your network remains protected after the upgrade from IPv4 to IPv6.

By offering multiple management options, the DGS-1210 series allows quick deployment, infrastructure expansion, and seamless function upgrades. Targeting small and medium sized businesses, the DGS-1210 Gigabit Smart Switches provide functionality, security, and manageability for a fraction of the standard cost of ownership.

The new DGS-1210-28P is a PoE Gigabit Smart Switch that provides 24 10/100/1000 Base-T PoE ports with 4 Gigabit SFP ports. In addition to IEEE 802.3af compliance, ports 1-4 provide up to 30 watts of power output following IEEE 802.3at. The design allows more flexibility in power allocation for a variety of powered devices with affordable installation costs.

Energy Saving

DGS-1210 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, DGS-1210 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 switch so that unnecessary power consumption can be saved during off hours. The DGS-1210 Series switches can also detect the length of connected cables to automatically reduce power usage on shorter cable connections.

¹IPv6 management and configuration supported since firmware v3.10.



Technical Specifications	DGS-1210-20	DGS-1210-28	DGS-1210-52	DGS-1210-28P
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	• 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	• 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	• 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	• 16 10/100/1000 Mbps, 4 SFP	• 24 10/100/1000 Mbps, 4 SFP	• 48 10/100/1000 Mbps 4 dual-speed SFP	• 24 10/100/1000 Mbps PoE capable, 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	• 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	• 29.8 Mpps			
Packet Buffer Memory	• 1 MB per device	• 41.7 Mpps	• 77.4 Mpps	• 41.7 Mpps
PoE				
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
Temperature				
Humidity				
Certifications				

Physical & Environmental

AC Input	100 to 240 VAC 50/60 Hz internal universal power supply			
Maximum Power Consumption	• 14.06 W	• 16.81 W	• 43.5 W	• 238.4 W (PoE on), 27.4 W (PoE off)
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	• 16 W/110 V, 14 W/240 V
Fan Quantity	• 0	• 0	• Two smart fans	• Two smart fans
Acoustics	• 0 dB(A)	• 0 dB(A)	• 47.1 dB(A)	• 52.2 dB(A)
Heat Dissipation	• 47.97 BTU/hr	• 57.36 BTU/hr	• 148.42 BTU/hr	• 813.42 BTU/hr
Operating Temperature	• -5 to 50 °C (41 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	• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 inches) • 19" standard rack mounting width, 1U height	• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 inches) • 19" standard rack mounting width, 1U height	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 inches) • 19" standard rack mounting width, 1U height	• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 inches); • 19" standard rack mounting width, 1U height
Weight	• 2.2 kg (4.85 lbs)	• 2.9 kg (6.39 lbs)	• 4.1 kg (9.04 lbs)	• 3.7 kg (8.15 lbs)
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)	• 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
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
 - 16,000 entries
- Flow Control
 - 802.3x Flow Control
 - HOL Blocking Prevention
- IGMP Snooping
 - IGMP v1/v2 Snooping
 - Supports 256 IGMP groups
 - Supports at least 64 static multicast addresses
 - IGMP per VLAN
 - Supports IGMP Snooping Querier
- Spanning Tree Protocol
 - 802.1D STP
 - 802.1w RSTP
- Loopback Detection
- 802.3ad Link Aggregation
 - DGS-1210-20:
 - Max. 10 groups per device/8 ports per group
 - DGS-1210-28/28P:
 - Max. 14 groups per device/8 ports per group
 - DGS-1210-52:
 - Max. 26 groups per device/8 ports per group
- Port Mirroring
 - One-to-One, Many-to-One
 - Supports Mirroring for Tx/Rx/Both
- Multicast Filtering
 - Forwards all unregistered groups
 - Filters all unregistered groups
- LLDP, LLDP-MED

VLAN

- 802.1Q
- VLAN Group
 - Max. 256 static VLAN groups
 - Max. 4094 VIDs
- Management VLAN
- 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
- 4 queues per port
- Queue Handling
 - Strict
 - Weighted Round Robin (WRR)
- CoS based on
 - 802.1p Priority Queues
 - DSCP
 - ToS1
- Bandwidth Control
 - Port-based (Ingress/Egress, min. granularity for 10/100/1000Base-T ports is 64 Kb/s)
- Configurable MDI/MDIX
- SNMP
 - Supports v1, v2, v3
- SNMP Trap
- System Log
 - Max. 500 log entries
- BootP/DHCP Client

Access Control List (ACL)

- DGS-1210-20/28/28P
 - Max. 50 profiles
 - Max. 240 rules shared by profiles
 - Single or multiple ports (each rule)
- DGS-1210-52
 - Max. 50 profiles
 - Max. 450 rules shared by profiles
- ACL based on
 - MAC Address
 - IPv4 Address (ICMP/IGMP/TCP/UDP)
 - 802.1p
 - DSCP
 - Ether type
- ACL Actions
 - Permit
 - Deny

Security

- Port Security
 - Supports up to 64 MAC addresses per port
- Broadcast/Multicast/Unicast Storm Control
- Static MAC
- D-Link Safeguard Engine
- DHCP Server Screening
- Trusted Host
- ARP Spoofing Prevention
 - Max. 64 entries
- SSL
 - Supports v1/v2/v3
 - Supports IPv4/IPv6
- Traffic Segmentation
- Smart Binding
 - Supports 512 entries of IP-MAC-Port binding
 - Discover connected devices and click to bind
 - Inspect ARP packets and/or IP packets
 - Supports DHCP Snooping

AAA

- 802.1X Port-based Authentication
 - Supports RADIUS Server
 - Supports EAP, OTP, TLS, TTLS, PEAP
- OAM
- Cable Diagnostics
- Factory Reset

MIB

- 1213 MIB II
- 1493 Bridge MIB
- 1907 SNMP v2 MIB
- 1215 Trap Convention MIB
- 2233 Interface Group MIB
- D-Link Private MIB
- Power-Ethernet MIB
- LLDP MIB
- SNMP
- ICMPv6
- IPv4/v6 Dual Stack
- DHCP Auto Configuration
- RMON v1
- Time-based PoE (PoE model only)

RFC Standard Compliance

- RFC 783 TFTP
- RFC 854 Telnet Server
- RFC 951 BootP/DHCP Client
- RFC 1157 SNMP v1, v2, v3
- RFC 1213 MIB II, IF MIB
- RFC 1215 MIB Traps Convention
- RFC 1350 TFTP
- RFC 1493 Bridge MIB
- RFC 1542 BootP/DHCP Client
- RFC 1769 SNTP
- RFC 1901 SNMP v1, v2, v3
- RFC 1907 SNMP v2 MIB
- RFC 1908 SNMP v1, v2, v3
- RFC 2068 FCS
- 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 2616 FCS
- RFC 2618 RADIUS Authentication
- RFC 2819 RMON v1
- RFC 2865 RADIUS Authentication
- RFC 3164 System Log
- RFC 3195 System Log
- RFC 3411-17 SNMP
- RFC 3621 Power Ethernet MIB

Management

- Multi-Language Web-based GUI
 - English (default)
 - Simplified Chinese
 - Traditional Chinese
 - French
 - German
 - Italian
 - Japanese
 - Portuguese
 - Russian
 - Spanish
- SmartConsole Utility
- Simplified CLI
- Telnet Server
- RFC1492 TACACS
- RFC3176 sFlow

D-Link Green 3.0 Technology

- Power Saving by:
 - Link Status
 - Cable Length detection
 - LED or Port Shutoff
 - Port Standby mode
 - System Hibernation mod

¹ IPv6 management and configuration supported since firmware v3.10



For more information: www.dlink.com

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