DGS-1210-28 Datasheet

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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.

Quick Specs

Figure 1 shows the appearance of DGS-1210-28.

Table 1 shows the Quick Specs.

Product Code	DGS-1210-28
Primary Ports	24 x RJ45 + 4 x SFP
Primary Port Speed	10/100/1000Mbps
Features	Switching Capacity: 56 Gbps
Buffer Memory	1.5 MB
Protocols	TCP/IP
Dimensions	1.73" x 17.32" x 5.51"

Product Details

Figure 2 shows the front panel of DGS-1210-28.

Figure 3 shows the back panel of DGS-1210-28.

DGS-1210-28 provides these features:

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.

Compare to Similar Items

Table 2 shows the comparison of DGS-1210-28.

Module	DGS-1210-28	DGS-1210-28P
Network Cables	· UTP Cat. 5, Cat. 5e (100 m max.) · EIA/TIA-568 100-ohm STP (100 m max.)	· UTP Cat. 5, Cat. 5e (100 m max.) · EIA/TIA-568 100-ohm STP (100 m max.)
Switching Capacity	56 Gbps	56 Gbps

AC Input	100 to 240 VAC 50/60 Hz internal universal power supply	100 to 240 VAC 50/60 Hz internal universal power supply
Maximum Power Consumption	22.45 W	22.45 W
Dimensions	17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm)	17.32 x 5.51 x 1.73 inches (440 x 140 x 44 mm)

Get More Information

Do you have any question about the **DGS-1210-28**?

Contact us now via **Live Chat** or **sales@router-switch.com**.

Specification

DGS-1210-28 Specification	
1000Base-T Interface	24
Combo 1000Base-T/SFP	4
Auto MDI/MDIX	Yes
10/100/1000BASE-T ports	24
Combo 10/100/1000BASE-T/SFP ports	4
Switch Capacity	56 Gbps
Max. Packet Forwarding Rate	41.7 Mpps
Store & Forwarding Forwading	Yes
Dimension	440mm x 140 mm x 44mm
Operation Temperature	-5 - 50°C
Storage Temperature	-20-70°C
Operation Humidity	0% - 95% RH
Storage Humidity	0% ~ 95% RH
Operating Altitude	1500 meters
Maximum Power Consumption	17.32 W/100 V 16.94 W/240 V
Standby Power Consumption	6.49 W/100V / 6.55 W/240V
Maximum Heat Dissipation	59.09 BTU/hr (100V) 57.79 BTU/hr (240V)
Acoustic	0 dB
MTBF	992,594 hours
Power Input	100-240 VAC
CPU Speed	500MHz
DRAM Size	DDR3 128MB
Flash Memory Size	32MB
Packet Buffer Size	4.1MBits

FAN	Fanless
Comply witd RoHS 6	Yes
Energy Efficiency Etdernet (EEE)	Yes
Power Saving By Link Status	Yes
Power Saving By Cable Lengtd	Yes
Power Saving By Port Shut-Off	Yes
Power Saving By System Hibernation	Yes
Time-based PoE	Yes
MAC Address Table Size	8K
802.3x Flow Control	Yes
Head-of-line (HOL) Blocking Prevention	Yes
802.1D Spanning Tree (STP)	Yes
802.1w Rapid Spanning Tree (RSTP)	Yes
802.1s Multiple Spanning Tree (MSTP)	Yes
Root Restriction	Yes
802.3ad Link Aggregation	Yes
Link Aggregation Group Per Device	8
Max Port Per Link Aggregation Group	8
Port Mirroring	Yes
Jumbo Frame	10,000 Bytes
Loopback Detection (LBD)	Yes
IGMP Snooping	Yes
Max IGMP Snooping Groups	256
IGMP Snooping Fast Leave	Yes
MLD Snooping	Yes
MLD Snooping Groups	Yes
MLD Snooping Fast Leave	Yes
802.1Q VLAN	Yes
VLAN Groups	Yes
Port-based VLAN	Yes
Voice VLAN	Yes
Auto Surveillance VLAN	Yes
Asymmetric VLAN	Yes
IP Interface	Yes
ARP	Yes

Max Number of IP Interface	4
ARP Entries	Yes
IPv6 Neighbor Discovery (ND)	Yes
ND Entries	128
Default Route	Yes
Static Route	Yes
Class of Service (CoS)	Yes
Number of Queue	Yes
Strict Priority Queue (SPQ)	Yes
Weighted Round Robin (WRR)	Yes
Port-based Bandwidtd Control	Yes
MAC Access List	Yes
Max Access Control List (ACL) Entries	Yes
IP Access List	Yes
IPv6 Access List	Yes
SSH	Yes
SSL	Yes (only support TLS 1.0)
Port Security	Yes
Broadcast/Multicast/Unicast Storm Control	Yes
Traffic Segmentation	Yes
D-Link Safeguard Engine	Yes
Smart IP-MAC-Port Binding (Smart IMPB)	Yes
DHCP Server Screening	Yes
ARP Spoofing Prevention	Yes
DoS Attack Prevention	Yes
Port based 802.1X Autdentication	Yes
802.1X	Yes
Autdentication for Management Access	Yes
RADIUS	Yes
Trusted Host	Yes
Cable Diagnostics	Yes
Simple Network Time Protocol (SNTP)	Yes
Web-based GUI	Yes
Command Line Interface (CLI)	Yes (Limited CLI via telnet)
Telnet Server	Yes

SNMP	Yes
SNMP Trap	Yes
TFTP Client	Yes
System Log	Yes
RMONv1	Yes
LLDP-MED	Yes
LLDP	Yes
DHCP/BootP Client	Yes
D-Link Discover Protocol (DDP)	Yes (v0.26)
DHCP Auto-configuration	Yes
DHCP relay	Yes
Dual Images	Yes
Dual Configurations	Yes
Debug Command	Yes
Ping	Yes
D-Link Network Assistant	Yes (Chrome edition)
Smart Wizard	Yes

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