D-Link®
Building Networks for People

DGS-F1210 Series
Gigabit Smart Managed PoE+ Switches with Long Reach PoE

Features

Flexible Deployment
- 10/100/1000 Mbps ports
- Models with 8, 16 and 24 PoE+ ports
- 2 Gigabit SFP Ports
- 250m Long Reach PoE technology[1]
- 6 kV surge protection
- 19" Rack mountable (brackets included)

Advanced Features
- IEEE 802.1Q VLAN traffic segregation
- Port-based, MAC-based VLANs
- IEEE 802.1p Quality of Service
- Auto Voice VLAN
- IGMP Snooping
- Bandwidth Control
- Link Aggregation (LACP)
- RSTP, MSTP, ERPS and more

Flexible Deployment
- Access Control Lists (ACLs)
- Broadcast/multicast/unicast flooding
- DDOS protection
- ARP Spoofing Prevention
- MAC-Port-IP Binding
- DHCP Snooping

The D-Link DGS-F1210 Series Smart Managed Switches are the latest generation of switches to provide increased Power over Ethernet (PoE) output, a range of physical interface types, multiple management interfaces, and advanced Layer 2 features. With all of these features combined, the DGS-F1210 Series provide a cost-efficient and flexible solution for expanding any business network.

PoE Support

The DGS-F1210 Series switches provide Power over Ethernet (PoE) support, reducing deployment time for IP cameras, VoIP phones, and access points. Dedicated power adapters are no longer required, as the DGS-F1210 Series switches comply with IEEE 802.3af (PoE) and 802.3at (PoE+) standards and provide up to 30 watts per port. The DGS-F1210-26MPS-E model offers extended PoE budget of up to 380 Watts. Additionally, 8 PoE ports in each switch offer Long Reach PoE technology[1], allowing the use of longer network cable runs which are normally limited to 100m. The Long Reach PoE technology supports cables up to 250m long.

Seamless Integration

The DGS-F1210 Series support a range of port and media types, including 10/100/1000BASE-T RJ-45 ports, PoE and PoE+ and Gigabit SFP ports. The DGS-F1210-10PS-E, DGS-F1210-18PS-E, DGS-F1210-26PS-E and DGS-F1210-26MPS-E models feature 2 SFP ports allowing you to choose the most suitable media type for your requirements. All DGS-F1210 Series switches include support for IEEE 802.3af/at and high power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets.
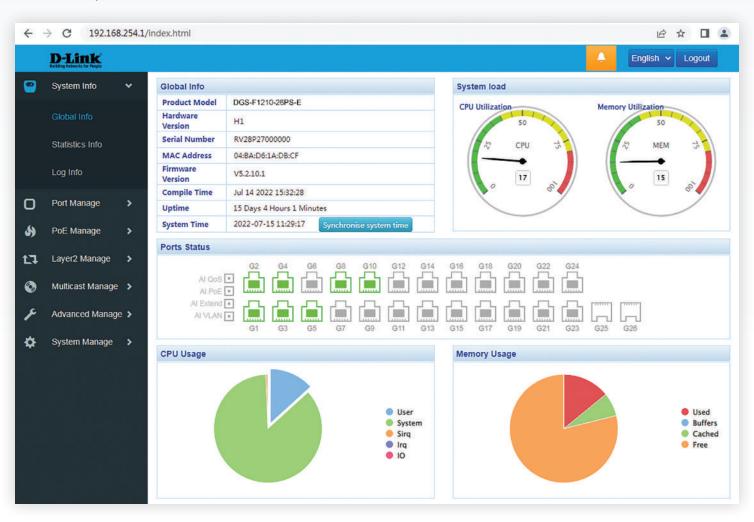
Advanced Features

The DGS-F1210 Series come equipped with a complete line-up of Layer 2 features, including 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. The DGS-F1210 Series also support advanced features such as port segmentation, which allow network administrators to divide the network into VLANs, increasing network efficiency. Network maintenance features include loop detection and cable diagnostics. Loop detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The cable diagnostics feature, designed primarily for administrators and customer service representatives, determines the cable quality and quickly discovers errors, allowing for hassle-free diagnostics and maintenance.

Advanced Access Control

The DGS-F1210 Series support 802.1X port-based authentication, allowing the clients to be authenticated through external RADIUS servers. The Access Control List (ACL) feature helps to enhance network security and helps to protect the internal IT network. The DGS-F1210 Series also feature Address Resolution Protocol (ARP) spoofing prevention, which helps to provide protection from attacks on the network that could allow an intruder to sniff data frames, modify traffic, or bring traffic to a halt altogether by sending fake ARP messages. To help prevent ARP spoofing attacks, the switch uses packet control ACLs to block invalid packets that contain fake ARP messages. The DHCP Snooping feature filters DHCP replies on unauthorised ports to prevent them from being assigned an IP address.

User Friendly Web Interface

Technical Specifications

Model Number	DGS-F1210-10PS-E	DGS-F1210-18PS-E	DGS-F1210-26PS-E	DGS-F1210-26MPS-E
Hardware Version	H1	H1	H1	H1

General

Network Interfaces	8 x 10/100/1000 Mbps PoE RJ45 ports 2 x Gigabit SFP ports	16 x 10/100/1000 Mbps PoE RJ45 ports 2 x Gigabit SFP ports	24 x 10/100/1000 Mbps PoE RJ45 ports 2 x Gigabit SFP ports	24 x 10/100/1000 Mbps PoE RJ45 ports 2 x Gigabit SFP ports
Number of PoE Ports	8	16	24	24
PoE Standards	IEEE 802.3af (PoE) and 802.3at (PoE+), up to 30 Watts per port			
PoE Budget	142 Watts	135 Watts	230 Watts	380 Watts
Console Port	RJ45			
DIP Switches	VLAN (Port Isolation), Extend (Long Reach PoE), PoE (PoE Watchguard), QoS (Auto Priority)			
Protocols and Standards	IEEE802.3 10BASE-T IEEE 802.3u 100BASE-TX ANSI/IEEE 802.3 NWay auto-negotiation IEEE802.3ab 1000 BASE-T IEEE802.3z 1000 BASE-X IEEE802.3x Flow Control IEEE 802.3af/at standard			

Functionality

Switching Capacity	20 Gbps	36 Gbps	52 Gbps	52 Gbps
Packet Forwarding Rate	14.9 Mpps	23.8 Mpps	38.7 Mpps	38.7 Mpps
MAC Address Table	8K entries			
VLANs	4K entries			
Lightning Protection	6 KV			
Max Power Consumption	8 W (150 W with PoE)	15 W (150 W with PoE)	18 W (250 W with PoE)	18 W (400 W with PoE)
Power	Built-in PSU, 100-240VAC, 50-60Hz			
Fans	1	1	1	3
Acoustics	35 dB(A)	35 dB(A)	35 dB(A)	45 dB(A)

Physical/Environmental

Dimensions (LxWxH)	285 × 180 x 44mm	440 x 180 x 44mm	440 x 180 x 44mm	440 x 293 x 44mm
Weight	1.15 kg	2.9 kg	3.0 kg	5.0 kg
Operating Temperature	0 to 40 ℃			
Operating Humidity	10% to 90% non-condensing			
Storage Temperature	-20 to 70 ℃			
Storage Humidity	10% to 95% non-condensing			

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Software Specifications

Standards	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (fibre) IEEE 802.3ad: Standard method for performing link aggregation IEEE 802.3x: flow control IEEE 802.1p: LAN Layer 2 QoS/CoS protocol for traffic priority (multicast filtering) IEEE 802.1q: VLAN IEEE 802.1d: STP Spanning tree IEEE 802.1s: MSTP Spanning tree IEEE 802.1w: RSTP Spanning tree IEEE 802.3af: PoE IEEE 802.3at: PoE+
DHCP	DHCP Snooping
VLAN	4K VLANs 802.1Q VLAN, MAC VLAN, IP VLAN Voice VLAN
MAC Address Table	Complies with IEEE 802.1d standard MAC address learning and aging automatically Static, dynamic
Jumbo Frame Support	Up to 10,000 bytes
Security	Password protection with strong password User access restrictions based on the port number, IP address, MAC address HTTPS, SSL V3, TLS V1, SSH V1/V2 IP-MAC-PORT binding IP source protection, DoS protection DHCP Snooping, DHCP attack protection 802.1X, AAA Port isolation CPU protection
PoE Management	PoE power limit PoE chip status view PoE port priority PoE power supply scheduler
Access Control (ACL)	Layer 2 - Layer 4 packet filtering Port mirroring, port redirection, flow rate limiting, QoS re-marking
Quality of Service (QoS)	8 queues Port priority, 802.1p priority, DSCP priority SP, WRR, WFQ Priority scheduling algorithm
Spanning Tree	STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocol root bridge protection, TC protection, BPDU protection
Multicast	IGMP v1/v2 Snooping Fast Leave mechanism Packet statistics and unknown multicast discards

Software Specifications

Link Aggregation	Static aggregation Dynamic aggregation IP, MAC, and hybrid load balancing modes Up to 32 aggregation groups
IPv6	IPv6 Ping, IPv6 Tracert, IPv6 Telnet IPv6 SSH, IPv6 SSL
Management and Maintenance	WEB network management (HTTP, HTTPS, SSL V3) CLI (Telnet, SSH V1/V2, local serial port) SNMP V1/V2/V3 LLDP, RMON IP source protection, DoS protection CPU monitoring, memory monitoring, System log Ping, Tracert, cable detection

Ordering Information

DGS-F1210-10PS-E	10 port Smart Managed Gigabit PoE Switch with 8 PoE+ ports (Long Reach 250m) and 2 SFP ports
DGS-F1210-18PS-E	18 port Smart Managed Gigabit PoE Switch with 16 PoE+ ports (8 Long Reach 250m) and 2 SFP ports
DGS-F1210-26PS-E	26 port Smart Managed Gigabit PoE Switch with 8 PoE+ ports (8 Long Reach 250m) and 2 SFP ports
DGS-F1210-26MPS-E	26 port Smart Managed Gigabit PoE Switch with 8 PoE+ ports (8 Long Reach 250m) and 2 SFP ports with extended PoE budget

Optional SFP Transceivers

DGS-712	1000BASE-T copper
DEM-310GT	1000BASE-LX, single mode, 10 km
DEM-311GT	1000BASE-SX, multimode, 550 m
DEM-312GT2	1000BASE-SX, multimode, 2 km
DEM-314GT	1000BASE-LHX, single mode, 50 km

[1] Long Reach PoE mode switches port speed to 10Mbps. Requires cables Cat5e or better.

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