Product Highlights

Power Your Devices

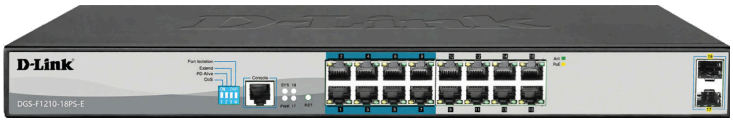
Supports IEEE 802.3af/at PoE to Power PoE capable Network devices via ethernet cables without need for power adapters

Flexible Connectivity

Support transmission distance up to 250m for flexible installation of wireless AP & Surveillance Solutions.

Eco-friendly and Economical

Low-cost, innovative design runs reliably and quietly, saving energy and cutting costs without sacrificing performance



DGS-F1210-18PS-E

Layer 2 Gigabit Managed Long Range PoE+ Surveillance Switch

Features

Superior connectivity

- 16 10/100/1000 Mbps PoE ports
- 2 Gigabit SFP Ports
- 150 watts available for PoE
- Flow control for protection against data loss
- Maximum distance of 250m on ports 1-8 in Extend Mode

Standards

- IEEE 802.3 10BASE-T Ethernet (twisted pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted pair copper)
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted pair copper)
- IEEE 802.3z 1000 BASE-X (fiber-optic)
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet

Easy to Use

- Plug-and-play installation
- IEEE 802.3x Flow Control
- Auto MDI/MDIX crossover for all ports

The D-Link DGS-F1210-18PS-E is an 18-port Managed Gigabit Switch with 16 10/100/1000 Mbps PoE ports, 2 Gigabit SFP uplink ports. This Switch enables users to easily connect and supply power to PoE-capable devices such as wireless Access Points (APs), IP cameras.

Power Over Ethernet

The DGS-F1210-18PS-E supports both IEEE 802.3at and IEEE 802.3af PoE protocol. With a total PoE budget of 150 watts, allowing users to attach an IEEE 802.3af-compliant device to the DGS-F1210-18PS-E without requiring additional power. PoE is especially suitable for devices that are far from power outlets or when users want to minimize the clutter of extra cables as power is supplied via the Ethernet cables themselves

Technical Specification

General	
Network Interface	• 16 x 10/100/1000 Mbps PoE RJ45 port (port1~port16) • 2 x Gigabit SFP Ports
Console Port	• RJ45
DIP Switches	• Port Isolation, Extend, PD Alive, QoS
Transmission Rate	• 10/100/1000Mbps Each port supports MDI / MDIX auto-flip and auto-negotiation • Network interface: 10BASE-T or 100BASE-TX, 1000 BASE-T Ethernet RJ-45 port
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	• 36 Gbps
Packet Forwarding	• 23.8 Mpps
Packet Buffer Memory	• 4.1 Mbits
DRAM	• 128 MB
Flash Memory	• 16 MB
LED Indicators	• Power, SYS, LINK/ACT, PoE
PoE Budget	• 150 W
MAC Address Table	• 8 K Entries
Power	• 100-240 VAC, 50-60 Hz
Lightning protection	• 6 KV
Max Power Consumption	• 160 W
Physical	
Physical Characteristics	• Dimensions (LxWxH): 440 x 180 x 44 mm • Weight: 2.3kg
Environmental Parameter	• Operating Temperature: 0 to 40 °C (32 to 104 °F) • Operating Humidity: 10% to 90% non-condensing

Software Specification	
Protocol Standard	• 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 (fiber) • 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 • IEEE 802.3at
DHCP	• DHCP Snooping
VLAN	• 4K VLAN • 802.1Q VLAN, MAC VLAN ,IP VLAN • Voice VLAN
MAC address table	• Complies with the IEEE 802.1d standard • MAC address learning and aging automatically • Static, dynamic, filter address table
Security	• Password protection • Based on the port number, IP address, MAC address restrictions on user access • HTTPS, SSL V3, TLS V1, SSH V1/V2 • IP-MAC-PORT ternary binding • ARP protection, IP source protection, DoS protection • DHCP Snooping, DHCP attack protection • 802.1X, AAA • Port security, port isolation • CPU protection
POE management	• POE power limit • POE chip status view • PoE port priority • PoE power supply time period
Access control (ACL)	• L2 (Layer 2) ~ L4 (Layer 4) packet filtering • Port mirroring, port redirection, flow rate limiting, QoS re-marking
Quality of Service (QoS)	• 8 queues per port • Port priority, 802.1p priority, DSCP priority • SP, RR, WRR, WFQ Priority scheduling algorithm
Spanning Tree	• STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol • Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
Multicast	• IGMP v1/v2 Snooping, IGMP v3 awareness • Fast leave mechanism • Multicast VLAN • Multicast filtering, packet statistics, and unknown multicast discards.
Storm suppression	• Multicast suppression • Broadcast suppression • Unknown unicast suppression

Software Specification	
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 • ARP protection, IP source protection, DoS protection • CPU monitoring, memory monitoring • System log, grading warning • Ping, Tracert detection, cable detection

Order Information	
Part Number	**Description**
DGS-F1210-18PS-E	18-Port Layer 2 Gigabit Managed Long Range PoE+ Surveillance Switch with 2 SFP Ports

Switch working mode

Using DIP switch, the working mode of DGS-F1210-18PS-E can be changed

1. Extend Mode: 1-8 ports support 250 meters long distance power supply (should use Cat5e or Cat6 cable)
2. Port Isolation Mode: Isolating ports 1-16 to each other can effectively suppress network storms and improve network performance.
3. QoS Mode: Customize application priority to improve network sensitivity. For example, video priority, monitoring transmission is smoother
4. PD Alive Mode: Automatically detect the power receiving port, find the dead device, power off and restart the devices

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