

## 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

##### Standards

- IEEE 802.3 10BASE-T Ethernet (twist-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 I MDIX crossover for all ports

The D-Link DGS-F1210-18PS-E is a 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 10/100/1000 Mbps PoE RJ45 port (port1~port16) 2Gigabit SFP Ports
Console Port	RJ45
DIP Switches	VLAN, Extend, PoE, 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	26.8 Mpps
LED's Indicator	Power, SYS, LINK/ACT, PoE
Budget	150W
MAC Address Table	8K Entries
Power	100-240VAC, 50-60Hz
Lightning protection	6KV
Physical	
Physical Characteristics	Dimensions (LxWxH): 440 x 180 x 44mm 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	<p>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</p>
DHCP	DHCP Snooping
VLAN	<p>4K VLAN            802.1Q VLAN, MAC VLAN ,IP VLAN            Voice VLAN</p>
MAC address table	<p>Comply the IEEE 802.1d standard            MAC address learning and aging automatically            Static, dynamic</p>
Security	<p>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            IP source protection, DoS protection            DHCP Snooping, DHCP attack protection            802.1X, AAA            Port isolation            CPU protection</p>
POE management	<p>POE power limit            POE chip status view            PoE port priority            PoE power supply time period</p>
Access control (ACL)	<p>L2 (Layer 2) ~ L4 (Layer 4) packet filtering            Port mirroring, port redirection, flow rate limiting, QoS re-marking</p>
Quality of Service (QoS)	<p>8 port queue            Port priority, 802.1p priority, DSCP priority            SP, WRR, WFQ Priority scheduling algorithm</p>
Spanning Tree	<p>STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol            root bridge protection, TC protection, BPDU protection</p>
Multicast	<p>IGMP v1/v2 Snooping            Fast leave mechanism            Packet statistics, and unknown multicast discards.</p>
Storm suppression	<p>Multicast suppression            Broadcast suppression            Unknown unicast suppression</p>

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 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 be use Cat5e or Cat6 cable)
2. VLAN 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 more smooth
4. PoE Mode: Automatically detect the power receiving port, find the dead device, power off and restart the devices