D-Link
Building Networks for People

Product Highlights

Power Your Devices

Supports IEE 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-F1100-10PS-E

Layer 2 Gigabit Smart Managed Long Range PoE+ Switch

Features

Superior connectivity
- 8/10/10O/1000 Mbps PoE ports
- 2 Gigabit SFP Ports
- 96 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-F1100-10PS-E is a 10 port Smart Managed Gigabit Switch with 8/10/100/1000 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-F1100-10PS-E supports both IEEE 802.3at and IEEE 802.3af PoE protocol. With a total PoE budget of 96 watts ,allowing users to attach an IEEE 802.3af-compliant device to the DGS-F1100-10PS-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.

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Technical Specification	
General	
Network Interface	8/10/100/1000 Mbps PoE RJ45 port (port1~port8) 2Gigabit SFP Ports
DIP Switches	VLAN, Extend, PoE, QoS
Transmission Rate	10/100/1000Mbps Each port supports MDI / MDIX auto-flip and auto-negotiation Network interface: lOBASE-T or lO0BASE-TX, 1000 BASE-T Ethernet RJ-45 port
Protocols and Standards	IEEE802.3 1 0BASE-T IEEE 802.3u lO0BASE-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
Packet Forwarding	14.88 Mpps
Packet Buffer Memory	4.1 Mbits
DRAM	128 MB
Flash Memory	16 MB
LED's Indicator PoE	Power, SYS, LINK/ACT, PoE
Budget	96 W
MAC Address Table	8 K Entries
Power	External Power Adapter: 100-240~50/60 Hz, 52 V/1.85 A
Lightning protection	6 KV
Physical	
Physical Characteristics	Dimensions (LxWxH): 228 x 121 x 37 mm Weight: 1.25kg
Environmental Parameter	Operating Temperature: O to 40°C (32 to 104°F) Storage Temperature: -40° to 70°C Operating Humidity: 10% to 90% non-condensing Storage Humidity: 5% to 95% 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	Comply 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 port queue 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 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-F1100-10PS-E	10-Port Layer 2 Gigabit Smart Managed Long Range PoE+ Switch with 2 SFP Ports

Switch working mode

Using DIP switch, the working mode of DGS-F1100-10PS-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. Port Isolation Mode: Isolating ports 1-8 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. PD Alive Mode: Automatically detect the power receiving port, find the dead device, power off and restart the devices

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