

8-Port 10/100Mbps 802.3at PoE + 1-Port 10/100/1000Mbps Desktop Switch

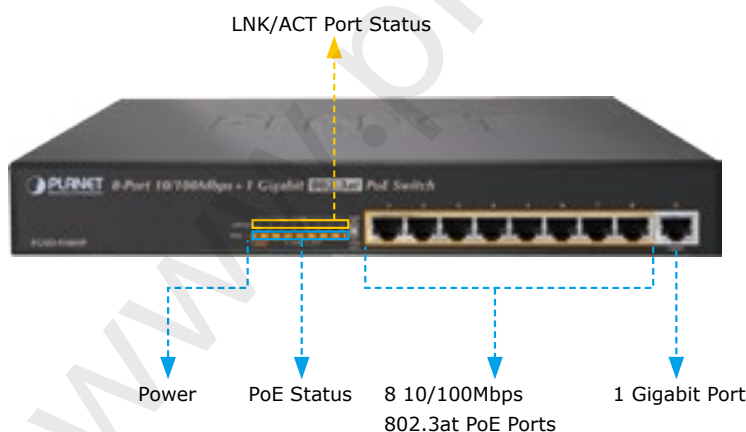


Centralized Power Distribution for Ethernet Networking

The FGSD-910HP is an **8-port 10/100Mbps 802.3at / 802.3af Power over Ethernet + 1-Gigabit Port** with a total PoE budget 120 watts capable of fulfilling the demand for higher-powered PoE network applications and provides Fast Ethernet speed transmission. The eight 802.3af / 802.3at PoE ports feature the PoE power injector function which is able to support 8 IEEE 802.3af compliant powered devices or 3 IEEE 802.3at compliant powered devices. The FGSD-910HP also offers a simple, cost-effective and non-blocking wire-speed performance. It comes with a compact 12-inch metal encasement, suitable for desktop deployment in a SOHO office or a department network application.

Ideal Solution for Securing an IP Surveillance Infrastructure

The unit is ideal for IP Surveillance applications, the FGSD-910HP 802.3at PoE Switch can operate as a Surveillance Switch with quick and easy PoE IP camera deployment and power feeding. The FGSD-910HP provides both 802.3af / 802.3at PoE functions along with 8 10/100Base-TX ports that feature a 15.4-watt 802.3af / 30-watt 802.3at PoE capability with RJ-45 copper interfaces and its 1 extra Gigabit TP interface that supports high speed transmission of surveillance images and videos.



RJ-45 Interface

- 8-Port 10/100Mbps Fast Ethernet Switch
- 8-Port supports 56V DC power to PoE powered device
- 1-Port 10/100/1000Mbps Gigabit Ethernet Switch

Power over Ethernet

- Complies with IEEE 802.3af / 802.3at Power over Ethernet End-Span PSE
- Up to 8 IEEE 802.3af devices powered
 - Supports PoE Power up to 15.4 watts for each PoE port
- Up to 3 IEEE 802.3at devices powered
 - Supports PoE Power up to 30 watts for each PoE port
- 120-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

Switching

- Hardware based 10/100Mbps auto-negotiation and auto MDI/MDI-X (Port 1 to Port 8)
- Hardware based 10/100/1000Mbps auto-negotiation and Auto MDI/MDI-X (Port 9)
- Flow control for full duplex operation and back pressure for half duplex operation
- Integrates address look-up engine, supporting 4K absolute MAC addresses
- Automatic address learning and address aging

Hardware

- 12-inch desktop size, 1U height
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- 1 silent fan to provide stable and efficient power performance

Perfectly Integrated Solution for IP PoE Camera and NVR System

Distinct from standard IT industrial PoE Switches that usually come with 12 or 24 PoE ports, the FGSD-910HP provides eight 802.3af / 802.3at PoE ports ideal for the small scale deployment of IP Surveillance networks at a lower total cost. The FGSD-910HP comes with a high performing switch architecture and a PoE power budget 120-watts. For comprehensive security monitoring the eight PoE IP Cameras can be powered by the FGSD-910HP and saved in an 8-channel NVR system or surveillance software. For example, the FGSD-910HP can be paired with one 8-Channel NVR and eight PoE IP cameras so that administrators can efficiently and remotely manage the surveillance system via the internet.



Stable and High Performing Switch Architecture

The FGSD-910HP has a 4K MAC address table and features a high-performing switch architecture that is capable of providing non-blocking 3.6Gbps switch fabric and wire-speed throughput as high as 2.67Mpps, greatly simplifying the tasks of upgrading the LAN to satisfy the increase in bandwidth demands. In addition, the 802.3x Full-Duplex flow control function of the FGSD-910HP enables PD devices and servers to directly connect to the switch for wire-speed packet transfer performance without the risk of losing packets.

The FGSD-910HP RJ-45 copper interfaces support 10/100Mbps Auto-Negotiation on ports 1 through 8 and 10/100/1000Mbps Auto-Negotiation on port 9 for optimal speed detection via a RJ-45 Category 6, 5 or 5e cables. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

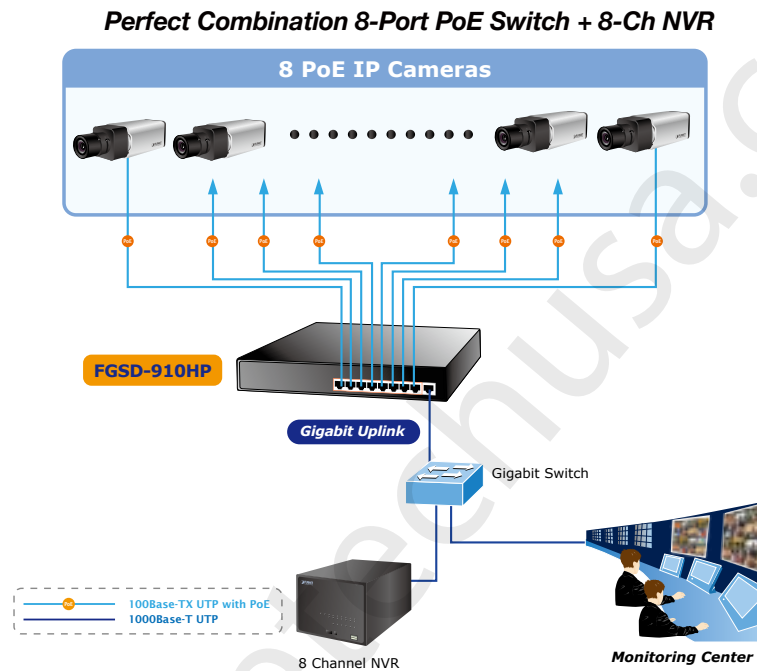
Easy Cable Connection

With data and power delivered via the Ethernet, the FGSD-910HP reduces cabling requirements and eliminates the need for dedicated electrical outlets that are hard to reach or absent. The unit lowers installation costs, simplifies the installation effort and eliminates the need for electricians or extension cords. With 8 PoE interfaces, the FGSD-910HP is ideal for small businesses and workgroups that require PoE deployment for wireless access points, IP-based surveillance cameras or IP phones at any location in an efficient or cost-effective manner.

Application

802.3at PoE IP Surveillance in Public Transportation

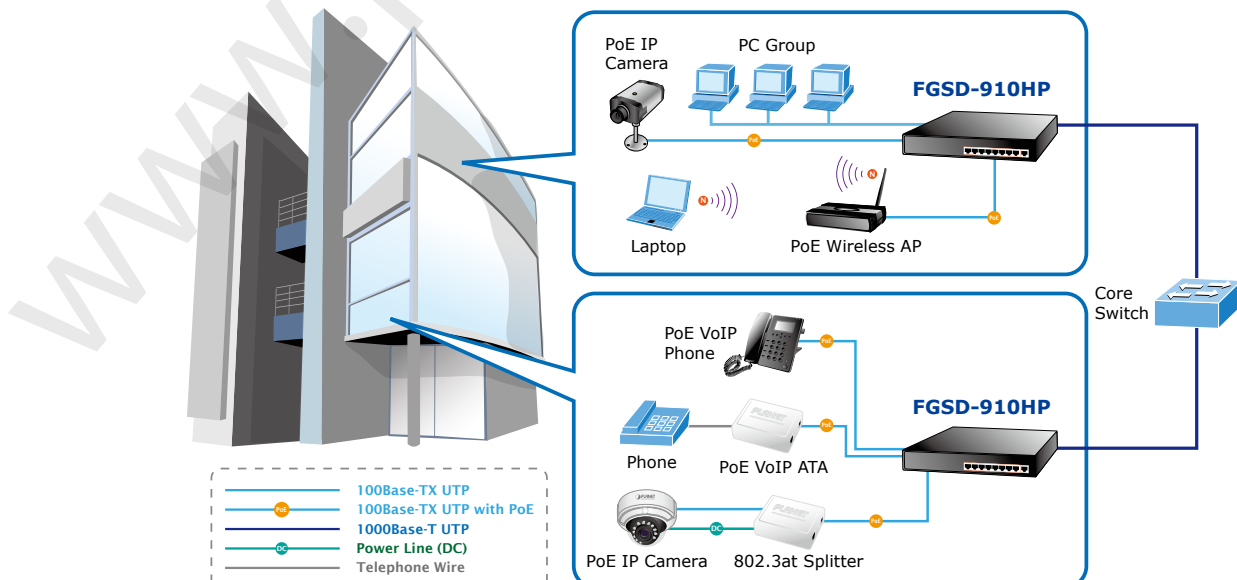
With eight 802.3af / 802.3at PoE, in-line power interfaces and one Gigabit TP interface, the FGSD-910HP can easily build a powerful centrally controlled IP Camera system for enterprises. It can work with an 8-Channel NVR and surveillance software for comprehensive security monitoring. Network administrators can efficiently and remotely manage the surveillance system via the internet. The FGSD-910HP has a 1 Gigabit TP interface that also provides Gigabit TP connection for its uplink to public server groups.



IP Office Department / Workgroup PoE Switch

With the expansion of a business, additional telephones could be installed in less cost via the implementation of a PoE IP Telephony system than when compared to a traditional circuit wiring telephony system. The FGSD-910HP PoE Ethernet Switch helps enterprises create an integrated data, voice, and powered network. IEEE 802.3af compliant IP Phones can be installed without the need of an additional power cable because the power can be provided via the standard Ethernet cable from the connected FGSD-910HP.

Wireless AP groups, PoE IP Phones and Analog Telephony Adapters work perfectly with the FGSD-910HP which injects power through the Ethernet cables. With the FGSD-910HP, IP Telephony deployment becomes reliable and cost effective, helping enterprises save on costs when upgrading from a traditional telephony system to an IP Telephony communications infrastructure.



Specifications

Model	FGSD-910HP	
Hardware Specifications		
Network Connector	8-Port RJ-45 for 10/100Base-TX (Port 1 to Port 8) 1-Port RJ-45 for 10/100/1000Base-T (Port 9)	
PoE Inject Port	8-Port with 802.3af / 802.3at PoE injector function	
LED Display	System: Power (Green) Per PoE port: PoE (Orange) LNK/ACT (Green) Gigabit port: Speed (Green) LNK/ACT (Green)	
Switch Architecture	Store and Forward switch architecture	
MAC Address Table	4K MAC address table with Auto learning function	
Switch Fabric	3.6Gbps	
Switch Throughput	2.67Mpps@64Bytes	
Flow Control	Back pressure for Half-Duplex IEEE 802.3x Pause Frame for Full-Duplex	
Power Requirements	AC 100~240V, 50/60Hz, 2.5A max.	
Power Consumption	130 watts / 443BTU	
Dimensions (W x D x H)	280 x 180 x 43 mm, 1U height	
Weight	1.7kg	
Power over Ethernet		
PoE Standard	IEEE 802.3af / 802.3at Power over Ethernet / PSE	
PoE Power Supply Type	End-Span	
PoE Power Output	Per Port 56V DC, 350mA. Max. 15.4 watts Per Port 56V DC, 600mA. Max. 30 watts	
Power Pin Assignment	1/2(+), 3/6(-)	
PoE Power Budget	120 watts (at room temperature)	
Max. number of Class 1 PD	8	
Max. number of Class 2 PD	8	
Max. number of Class 3 PD	8	
Max. number of Class 4 PD	3	
Standard Conformance		
EMI Safety	FCC Class A, CE	
Operating Environment	0 ~ 50 degrees C	
Storage Environment	-10 ~ 70 degrees C	
Operating Humidity	5 ~ 95%, relative humidity, non-condensing	
Storage Humidity	5 ~ 95%, relative humidity, non-condensing	
Standard Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x IEEE 802.3af IEEE 802.3at	Ethernet Fast Ethernet Gigabit Ethernet Flow Control Power over Ethernet High Power over Ethernet

Ordering Information

FGSD-910HP	8-Port 10/100Mbps 802.3at PoE + 1-Port 10/100/1000Mbps Desktop Switch
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Related PoE Products

ICA-2200	Full HD PoE Box IP Camera
ICA-2500	5 Mega-pixel PoE Box IP Camera
ICA-3250V	Full HD Outdoor IR PoE IP Camera
ICA-3350V	3 Mega-pixel Vari-focal Bullet IR IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-5350V	3 Mega-pixel Vandalproof IR IP Camera
ICA-8350	3 Mega-pixel Vandalproof Fisheye IP Camera
ICA-HM101	2 Mega-pixel PoE Cube IP Camera
ICA-HM132	H.264 2 Mega-pixel 20M IR Vari-focal Dome IP Camera
ICA-HM136	H.264 2 Mega-pixel 20M IR Vandalproof Dome IP Camera
ICA-HM312	2 Mega-pixel 25M IR Outdoor Bullet PoE IP Camera
ICA-HM316	2 Mega-pixel Outdoor IR PoE IP Camera
ICA-HM351	2 Mega-pixel 35M IR Outdoor Box PoE IP Camera
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
POE-152S	IEEE 802.3af Power over Ethernet Splitter
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E101	IEEE 802.3af Power over Ethernet Extender
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
ICF-1700	Touch Screen Internet Multimedia Phone
VIP-256PT	802.3af PoE SIP IP Phone
NVR-820	8-CH Network Video Recorder with HDMI
NVR-1620	16-CH Network Video Recorder with HDMI

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