

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

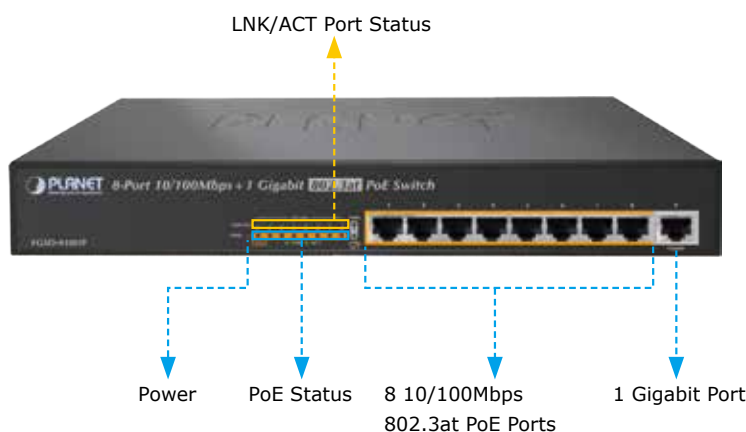


## Centralized Power Distribution for Ethernet Networking

The FGSD-910HP, a new member in the PLANET 802.3at PoE Fast Ethernet Switch family, provides **8-port 10/100Mbps 802.3at / 802.3af Power over Ethernet + 1-Gigabit Port** with a total of 120 watts of PoE budget, which is an ideal solution to fulfilling the demand of sufficient PoE power for network applications with Fast Ethernet speed transmission. The eight 802.3af / 802.3at PoE ports feature PoE power injector function which is able to drive 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 12-inch metal compact housing, suitable for desktop deployment in SOHO office or department network application.

## Ideal Solution for Securing IP Surveillance Infrastructure

Particularly designed for the growing popular IP Surveillance applications, the FGSD-910HP 802.3at PoE Switch is positioned as a Surveillance Switch for quick and easy PoE IP camera deployment with power feeding. The FGSD-910HP provides both 802.3af / 802.3at PoE functions along with 8 10/100Base-TX ports featuring 15.4-watt 802.3af / 30-watt 802.3at PoE in RJ-45 copper interfaces and 1 extra Gigabit TP interface supporting 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

Different from the general IT industrial PoE Switch which usually comes with 12 or 24 PoE ports, the FGSD-910HP provides eight 802.3af / 802.3at PoE ports for catering to small scale of IP Surveillance networks at a lower total cost. The FGSD-910HP comes with high performance switch architecture and 120-watt PoE power budget. The recorded video files from eight PoE IP Cameras can be powered by the FGSD-910HP and saved in the 8-channel NVR system or surveillance software to perform comprehensive security monitoring. For instance, one FGSD-910HP can be combined with one 8-Channel NVR and eight PoE IP cameras as a kit for the administrators to centrally and efficiently manage the surveillance system in the local LAN and the remote site via Internet.



### Stable and High Performance Switch Architecture

The FGSD-910HP has a 4K MAC address table, featuring high performance switch architecture capable of providing the non-blocking 3.6Gbps switch fabric and wire-speed throughput as high as 2.67Mpps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands. Besides, the 802.3x Full-Duplex flow control function of the FGSD-910HP enables PD devices and servers to be directly connected to the switch for wire-speed packet transfer performance without the risk of packet loss.

The FGSD-910HP RJ-45 copper interfaces support 10/100Mbps Auto-Negotiation at port 1 to port 8 and 10/100/1000Mbps Auto-Negotiation at port 9 for optimal speed detection through 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

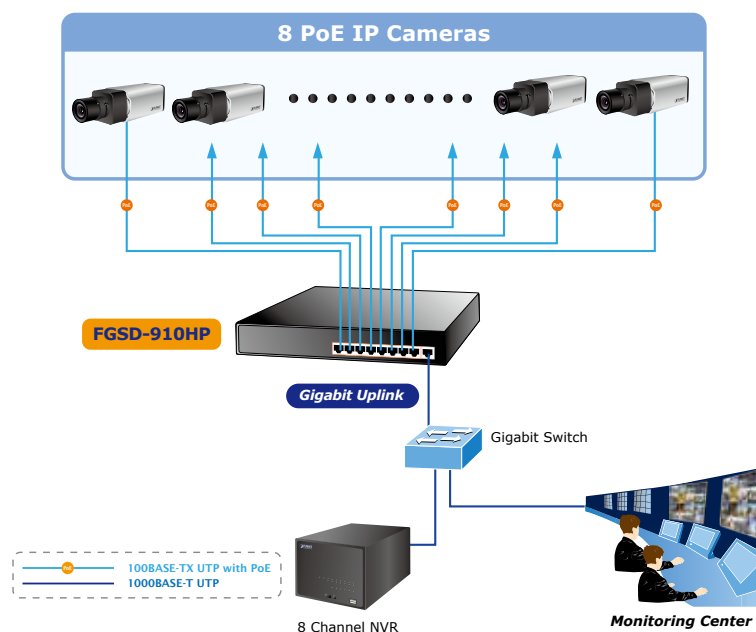
With data and power over Ethernet from one unit, the FGSD-910HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 8 PoE interfaces, the FGSD-910HP is ideal for small businesses and workgroups requiring deploying the PoE for the wireless access points, IP-based surveillance camera or IP phones in any places easily, efficiently and cost-effectively.

## Application

### 802.3at PoE IP Surveillance in Public Transportation

Providing eight 802.3af / 802.3at PoE, in-line power interfaces and one Gigabit TP interface, the FGSD-910HP can easily build a power centrally controlled IP Camera system for the enterprises. It can work with 8-Channel NVR and surveillance software to perform comprehensive security monitoring. For instance, one FGSD-910HP can be combined with one 8-Channel NVR; that is, each of its PoE port can be linked to a specific 802.3af PoE IP camera for the administrators to centrally and efficiently manage the surveillance system in one site. The 1 Gigabit TP interface in the FGSD-910HP also provides Gigabit TP connection for uplink to public server groups.

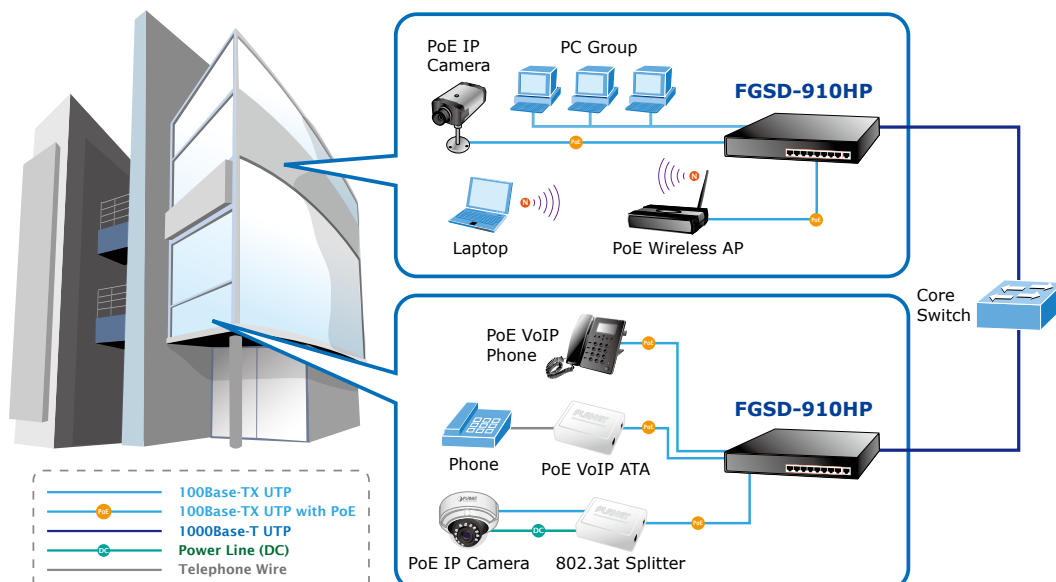
#### Perfect Combination 8-Port PoE Switch + 8-Ch NVR



### IP Office Department / Workgroup PoE Switch

With the business office expansion, the additional telephones required could be installed in less cost via the implementation of PoE IP Telephony system than that of the traditional circuit wiring telephony system. The FGSD-910HP PoE Ethernet Switch helps enterprises to create an integrated data, voice, and powered network. The 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.

The Wireless AP group, PoE IP Phones and Analog Telephony Adapter work perfectly with the FGSD-910HP which injects power through the Ethernet cables. With the FGSD-910HP, IP Telephony deployment becomes more reliable and cost effective, which helps enterprises save tremendous cost when upgrading from the traditional telephony system to 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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**VIDELCO** Europe Limited – Professionelle Audio-, Video-, Medien-Technik  
Fon: +49 (0)2102 / 86 39-00 • Fax: +49 (0)2102 / 86 39-17 • [info@videlco.eu](mailto:info@videlco.eu) • [www.videlco.eu](http://www.videlco.eu)