

# 8-Port 10/100TX 802.3at/af PoE + 1-Port 10/100/1000T + 1-Port 100/1000X SFP Desktop Switch



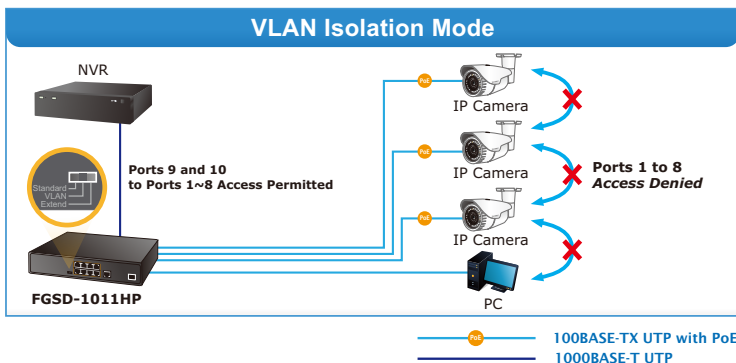
### Centralized Power Distribution for HD IP Surveillance System

The FGSD-1011HP, a new member of the PLANET 802.3at PoE Fast Ethernet Switch family, provides 8-port 10/100Mbps 802.3at/af Power over Ethernet, 1 Gigabit port and 1 Gigabit SFP port with a total of 120 watts of PoE budget. Its power budget is more than enough for any network applications with Fast Ethernet speed transmission. The eight 802.3at/af PoE ports feature PoE power injector function which is able to drive 8 IEEE 802.3at compliant powered devices. The FGSD-1011HP also offers a simple, cost-effective and non-blocking wire-speed performance. It comes with a 9-inch compact metal housing, suitable for desktop deployment in SOHO office or department network application.



### Distance Extended for Transmission of Power and Data

The built-in solid DIP switch provides “Standard”, “VLAN” and “Extend” operation modes. The FGSD-1011HP operates as a normal IEEE 802.3at/af PoE Switch in the “Standard” operation mode. The “VLAN” operation mode features port-based VLAN function that can help to prevent the IP camera’s multicast or broadcast storm from influencing each other.



### Physical Port

- 8 10/100Mbps Fast Ethernet ports
- 1 10/100/1000BASE-T Gigabit Ethernet port
- 1 1000BASE-X mini-GBIC SFP interface

### Power over Ethernet

- Complies with IEEE 802.3af/at Power over Ethernet end-span
- Up to 8 IEEE 802.3af/2 IEEE 802.3at devices powered
- Supports PoE power up to 30 watts for each PoE port
- 120-watt PoE budget
- 8 ports supporting 52V DC power to PoE powered device (Ports 1 to 8)
- Hardware DIP switch for “Standard”, “VLAN” and “Extend” mode selection; the “Extend” mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in the standard mode

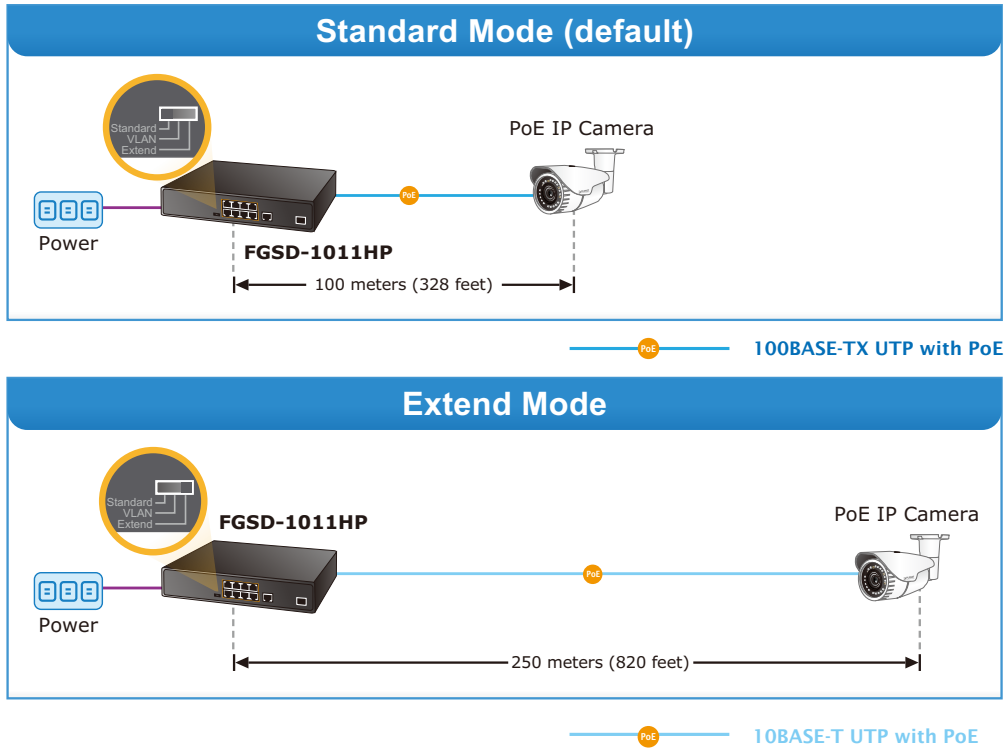
### Switching

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- 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
- Solid DIP switch to isolate ports to prevent broadcast storm and defend DHCP spoofing

### Hardware

- 9-inch desktop size, 1U height, mountable
- LED indicators for PoE ready/activity and LINK/ACT
- Fanless design
- Internal AC power supply
- Support Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

In the "Extend" operation mode, the FGSD-1011HP operates on a per-port basis at 10Mbps duplex operation but can support 30-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the FGSD-1011HP provides an additional solution for 802.3af/at PoE distance extension, thus saving the cost of Ethernet cable installation. Its VLAN isolation function isolates each port so as to prevent broadcast storm and defend DHCP spoofing in the "Extend" operation mode.

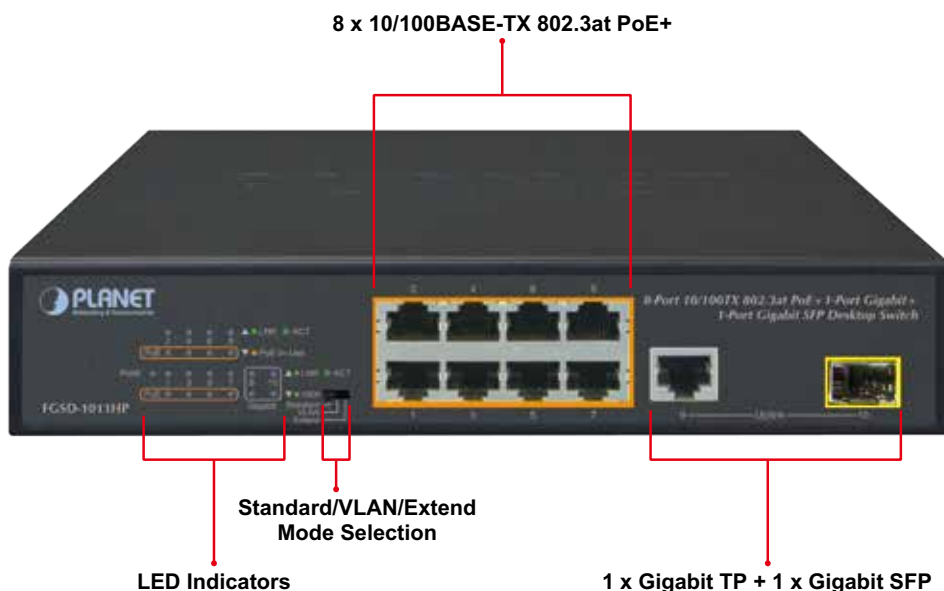


**Two Gigabit Uplink Ports**

The FGSD-1011HP comes with two uplink ports with 1000Mbps transfer rate to ensure high-speed data and video transmission, reliable assurance for connection between the surveillance system and outside network where the eight PoE+ ports can be used to their full potential.

**Fiber-Optic Link Capability Enables Extension of Network Deployment**

The mini-GBIC slot built in the FGSD-1011HP supports SFP auto-detection and dual speed as it features 100BASE-FX and 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber-optic modules, meaning the administrator now can flexibly choose the suitable SFP transceiver based on the transmission distance or the transmission speed required to extend the network efficiently. The distance can be extended from 550 meters to 2 kilometers (multi-mode fiber) and 10/20/30/40/50/60/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications to uplink to backbone switch and monitoring center in long distance.



**Robust Protection**

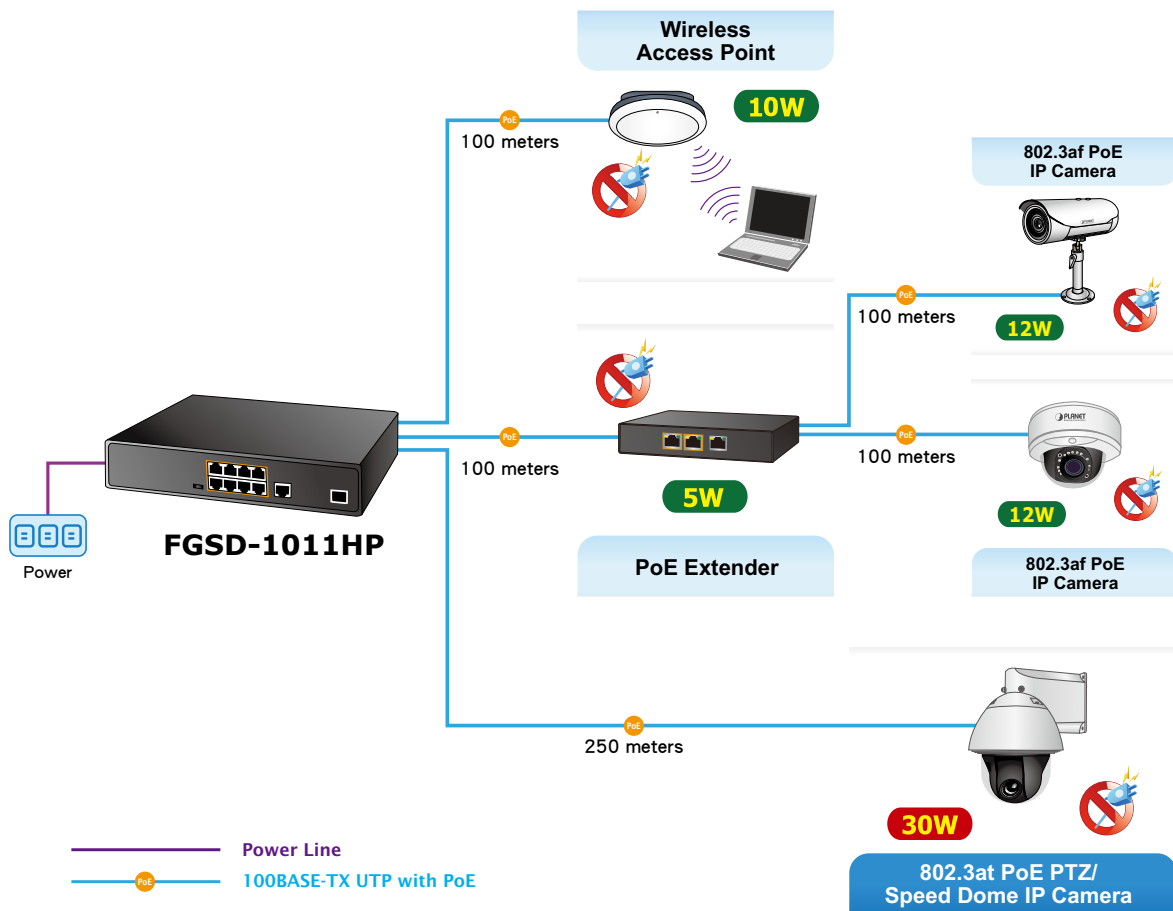
The FGSD-1011HP protects against the ESD 4KV surge to improve product stability and also protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

**Environment-friendly, Fanless Design for Silent Operation**

The FGSD-1011HP comes with a desktop-sized, compact metal housing, making the placement of the unit convenient. It features a ventilated construction in which a cooling fan is not necessary, thereby making its operation noiseless. Moreover, the FGSD-1011HP is able to operate reliably and stably in any environment without affecting its performance. The deployment of PoE PDs with constant power feeding can be easily and quickly done.

**Easy Installation and Cable Connection**

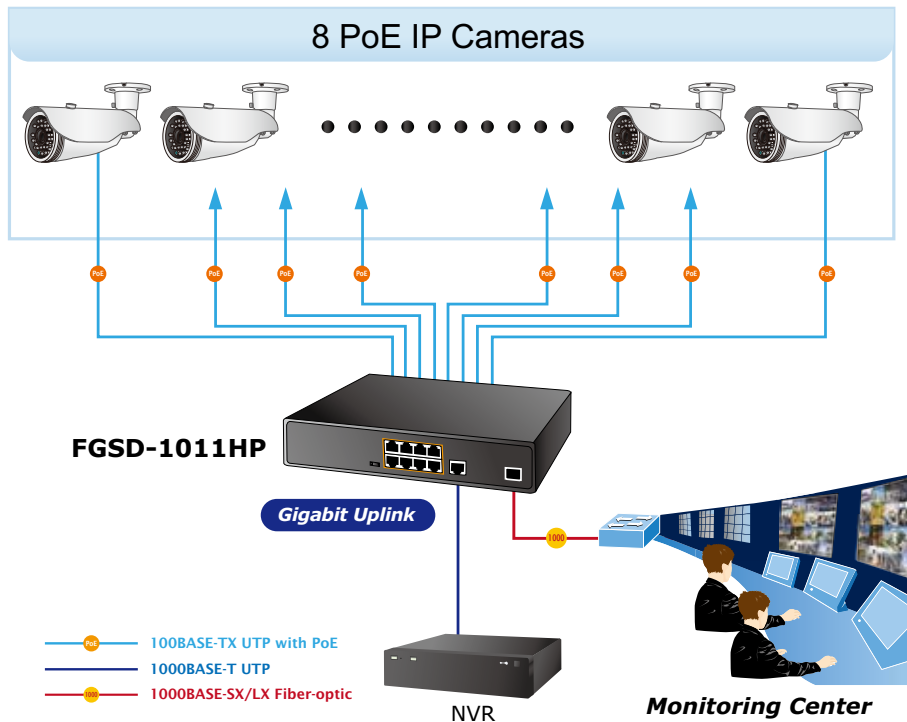
As data transfer and high PoE are transmitted over a cable, the FGSD-1011HP is able to reduce the need of extended cables and electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs and simplify the installation effort. All RJ45 copper interfaces of the FGSD-1011HP support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cable. It also supports standard auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.



## Applications

### Perfectly Integrated Solution for IP PoE Camera and NVR System

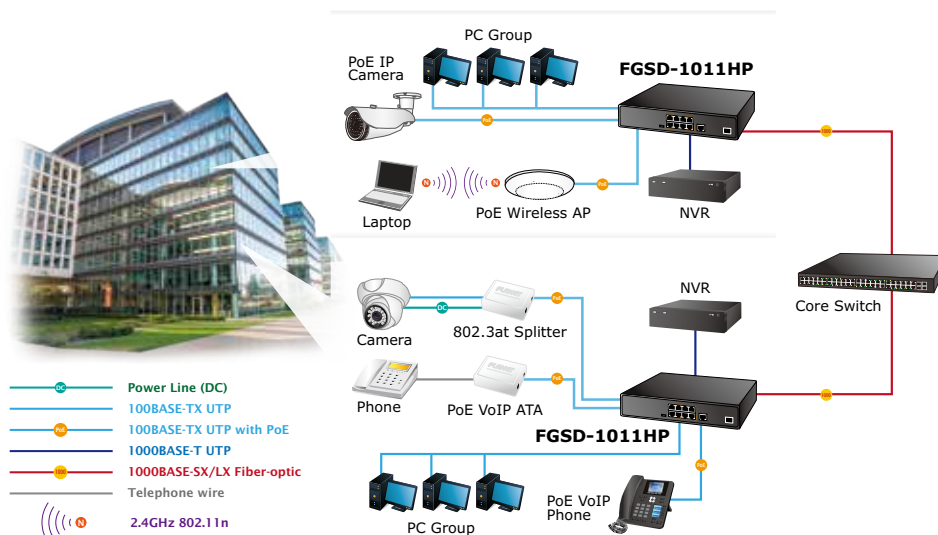
Particularly designed for the growing popular IP Surveillance applications, the FGSD-1011HP 802.3at PoE Switch is positioned as a Surveillance Switch for quick and easy PoE IP camera deployment with power feeding. The FGSD-1011HP provides both 802.3at and 802.3af PoE functions along with 8 10/100BASE-TX ports featuring 30-watt 802.3at or 15.4-watt 802.3af PoE in RJ45 copper interfaces, **1 extra Gigabit TP** and **1 extra Gigabit SFP uplink interface** supporting high-speed transmission of surveillance images and videos.



### IP Office Department/Workgroup PoE Switch

With the business office expansion, the additional telephones required can be installed with lower cost via the implementation of PoE IP telephony system than that of the traditional circuit wiring telephony system. The FGSD-1011HP 802.3af/at PoE Switch helps enterprises to create an integrated data, voice, and powered network. The IEEE 802.3af compliant IP phones can be installed without an additional power cable because the power can be provided via the standard Ethernet cable from the connected FGSD-1011HP.

The wireless AP group, PoE IP phones and analog telephony adapter work perfectly with the FGSD-1011HP, which injects power through the Ethernet cables. With the FGSD-1011HP, IP telephony deployment becomes more reliable and cost-effective, thus helping enterprises save tremendous costs when upgrading from the traditional telephony system to IP telephony communications infrastructure.



## Specifications

Model	FGSD-1011HP	
<b>Hardware Specifications</b>		
10/100Mbps Ports	8 10/100BASE-TX MDI/MDI-X RJ45 ports	
Gigabit Ports	1 10/100/1000BASE-T MDI/MDI-X RJ45 port	
SFP Slot	1 100/1000BASE-X SFP/mini-GBIC interface	
PoE Inject Port	8-port with 802.3at/af PoE injector function (Ports 1 to 8)	
LED Display	<b>System:</b> Power (Green) <b>10/100BASE-TX RJ45 Interface:</b> PoE (Orange, Ports 1 to 8) LNK/ACT (Green, Ports 1 to 8) <b>10/100/1000BASE-T RJ45 Interface:</b> 1000Mbps LNK/ACT (Green, Port 9) <b>100/1000BASE-X SFP Interface:</b> 1000Mbps LNK/ACT (Green, Port 10)	
DIP Switch	100m distance in standard mode 250m distance in extend mode (based on the cable category)	
Switch Architecture	Store and Forward switch architecture	
MAC Address Table	4K MAC address table with auto learning function	
Switch Fabric	5.6Gbps	
Switch Throughput	4.16Mpps @64bytes	
Maximum Packet Size	9K bytes	
Flow Control	Back pressure for half duplex; IEEE 802.3x pause frame for full duplex	
Power Requirements	AC 100~240V, 2.5A max.	
Power Consumption	135 watts, 463.2 BTU	
Dimensions (W x D x H)	220 x 150 x 44 mm	
Weight	1220g	
ESD Protection	Contact discharge of ±6KV DC Air discharge of ±8KV DC	
Surge Immunity	±4KV	
<b>Power over Ethernet</b>		
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Power Supply Type	End-span	
Power Pin Assignment	1/2 (+), 3/6 (-)	
PoE Power Output	Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at) Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)	
PoE Power Budget	120 watts	
Number of PDs, 7 watts	8	
Number of PDs, 15.4 watts	8	
Number of PDs, 30 watts	4	
<b>Standards Conformance</b>		
EMI Safety	CE, FCC	
Standards Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3z IEEE 802.3x IEEE 802.3af IEEE 802.3at	Ethernet Fast Ethernet Gigabit 1000BASE-T Gigabit SX/LX Flow Control Power over Ethernet Power over Ethernet Plus
<b>Environment</b>		
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	

## Ordering Information

FGSD-1011HP 8-Port 10/100TX 802.3at/af PoE + 1-Port 10/100/1000T + 1-Port 100/1000X SFP Desktop Switch

## Related PoE Products

HDP-1100PT	720p SIP Door Phone with PoE
HDP-5240PT	720p SIP Multi-unit Video Door Phone with RFID and PoE
HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
ICA-2250VT	Industrial PoE Plus Outdoor IR IP Camera
ICA-3250	1080p IR Bullet PoE IP Camera
ICA-4250	1080p IR Dome PoE IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-E3550V	5 Mega-pixel Bullet IR PoE IP Camera with Extended Support
ICA-E5550V	5 Mega-pixel Vandalproof IR PoE IP Camera with Extended Support
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera with Extended Support
ICA-E6265	2 Mega-pixel IR PoE Plus Speed Dome IP Camera with Extended Support
ICA-E8550	5 Mega-pixel Outdoor IR PoE Fisheye IP Camera with Extended Support
ICA-M3380P	H.265 3 Mega-pixel Bullet IR IP Camera with Remote Focus and Zoom
ICA-M4320P	H.265 3 Mega-pixel IR IP Camera with Remote Focus and Zoom
ICA-M5380P	H.265 3 Mega-pixel Vandalproof IR IP Camera with Remote Focus and Zoom
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220A	300Mbps 802.11n Ceiling-mount Wireless Access Point
WNAP-W2200	802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type)
WDAP-C7400	900Mbps Dual Band Ceiling-mount Wireless Access Point
WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
VIP-1120PT	High Definition Color PoE IP Phone
VIP-2140PT	High Definition Color PoE IP Phone with Dual Display
VIP-5060PT	Professional HD PoE IP Phone (6-Line)
VIP-6040PT	Gigabit Color LCD HD PoE IP Phone (4-Line)
ICF-1800	HD Touch Screen Android Multimedia Conferencing Phone