

## 8-Port 10/100TX 802.3at PoE + 2-Port 10/100TX Desktop Switch



### Flexible and Extendable Centralized Power Distribution

PLANET FSD-1008HP provides eight 10/100TX ports featuring 30-watt 802.3at PoE+, a total 120-watt PoE budget and extra two uplink ports to fulfill the demand of sufficient PoE power for HD IP surveillance and Wi-Fi system in a small-scale but high-performance network. With the same desktop-sized and compact metal housing, it makes the placement of the unit convenient and provides a quick and easy PoE PDs deployment with power feeding.



### Ethernet Data Transmit Distance Extension

The DIP switch provides “Standard”, “VLAN” and “Extend” operation modes.

- The **FSD-1008HP** operates as a normal IEEE 802.3at PoE+ switch in the “Standard” operation mode.
- The “VLAN” operation mode features port-based VLAN function that helps to prevent the IP camera’s multicast or broadcast storm from influencing each other.
- In the “Extend” operation mode, the **FSD-1008HP** operates on a per-port basis at 10Mbps duplex operation but supports 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 **FSD-1008HP** provides an additional solution for 802.3at PoE+ distance extension, thus saving the cost of Ethernet cable installation.

### Physical Port

- 10-port 10/100BASE-TX Fast Ethernet RJ45 copper
- 8-port IEEE 802.3at PoE+ Injector (Ports 1 to 8)

### Power over Ethernet

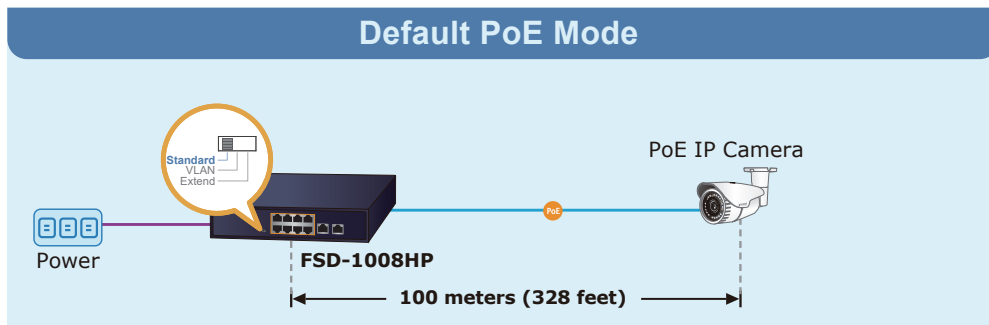
- Complies with IEEE 802.3at Power+ over Ethernet end-span PSE
- Up to 8 ports of IEEE 802.3af/at devices powered
- Supports PoE power up to 30.8 watts for each PoE port, with a total PoE budget of 120W.
- Each port supports 54V DC power to PoE powered device
- Auto detects powered device (PD)
- Supports PD alive function.
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in standard mode with 250m in extended mode

### Switching

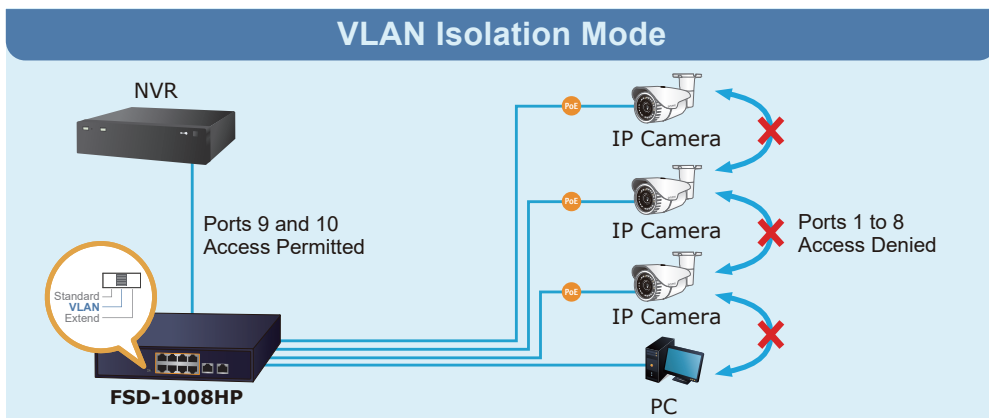
- Hardware-based 10/100Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- IEEE 802.1Q VLAN transparency
- Hardware DIP switch for **Standard**, **VLAN** and **Extend** mode selection; the Extend mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation (Only for Ports 1 to 8)
- Solid DIP switch to isolate ports to prevent broadcast storm and defend DHCP spoofing

### Hardware

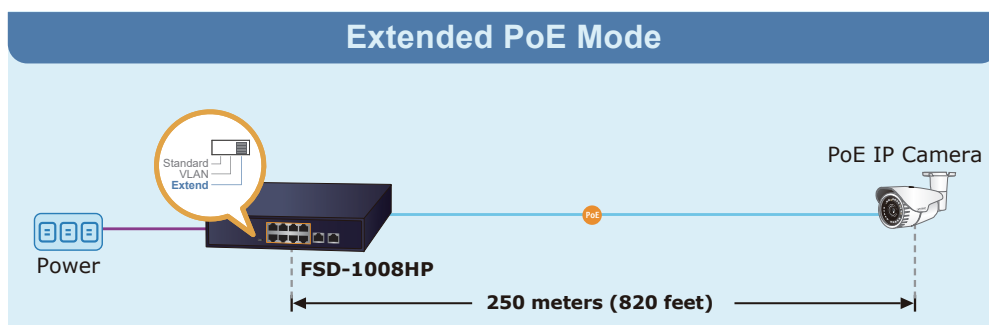
- 9-inch desktop size, 1U height, rack mountable
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- Fanless design
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)



100BASE-TX UTP with PoE



100BASE-TX UTP with PoE  
100BASE-TX UTP



10BASE-T UTP with PoE

### Two Extra Uplink Ports

The FSD-1008HP provides 2 extra 10/100BASE-TX copper interfaces that enable network administrators to increase their network bandwidth to relieve traffic congestion when the 2 uplink ports are used to connect PoE-capable devices, such as NVR, Video Streaming Server, NAS and more. The administrators can easily connect and supply power to PoE-capable devices no matter how large the network expansion is

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

The FSD-1008HP 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 FSD-1008HP is able to operate reliably and stably in any environment.

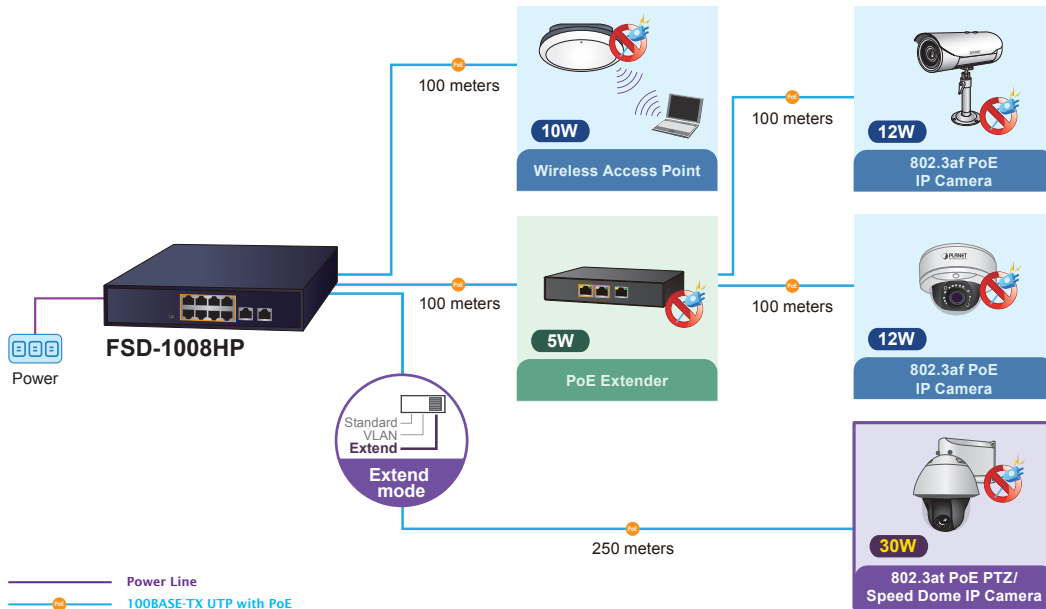
### Powered Device Alive Check

The FSD-1008HP adopts not only Power over Ethernet technology, but also automated PD monitoring and real-time PoE status.

The PD alive check feature is applied in Standard, VLAN and Extend modes. After the PoE of the port is powered on, the device starts to detect whether the port is transmitting data. If the port does not transmit data and the duration exceeds a specific time, PoE will automatically power off and then re-power. It also will greatly enhance the network reliability in that the PoE port will reset the PD power, thus reducing administrator's management burden.

### Easy Cable Connection

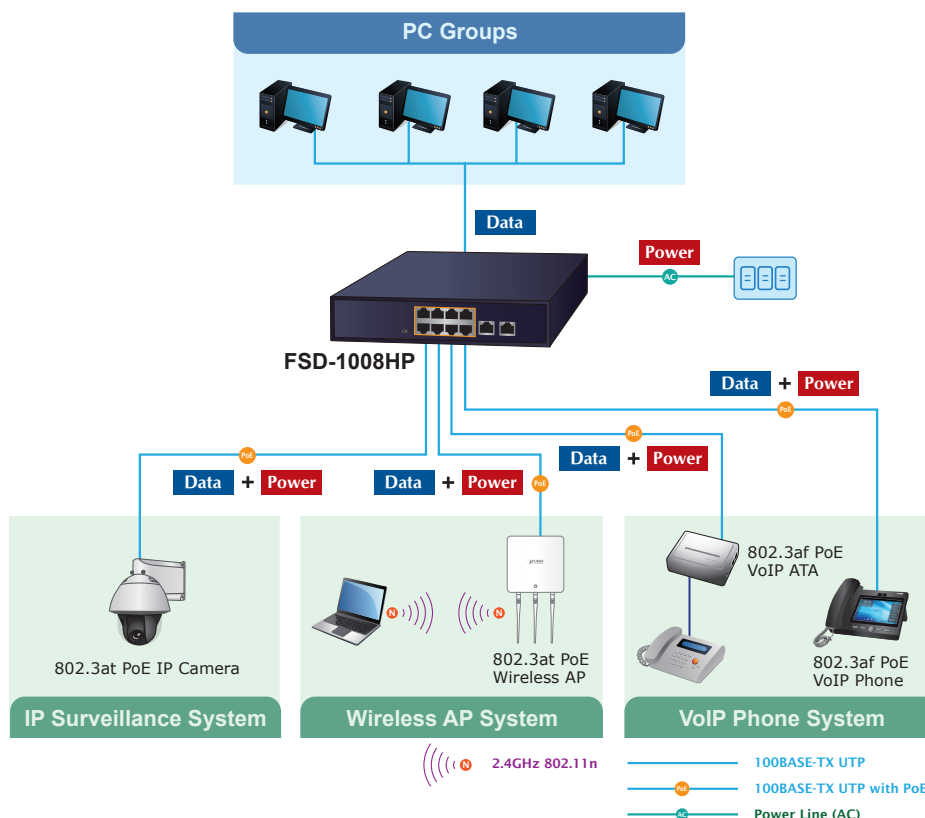
With data switching and power over Ethernet integrated into one unit, the FSD-1008HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. With 8 PoE interfaces, the FSD-1008HP is ideal for small businesses and workgroups making the deployment of the PoE facility including wireless access points, IP-based surveillance camera and IP phones in any places easier, more efficient and more cost-effective.

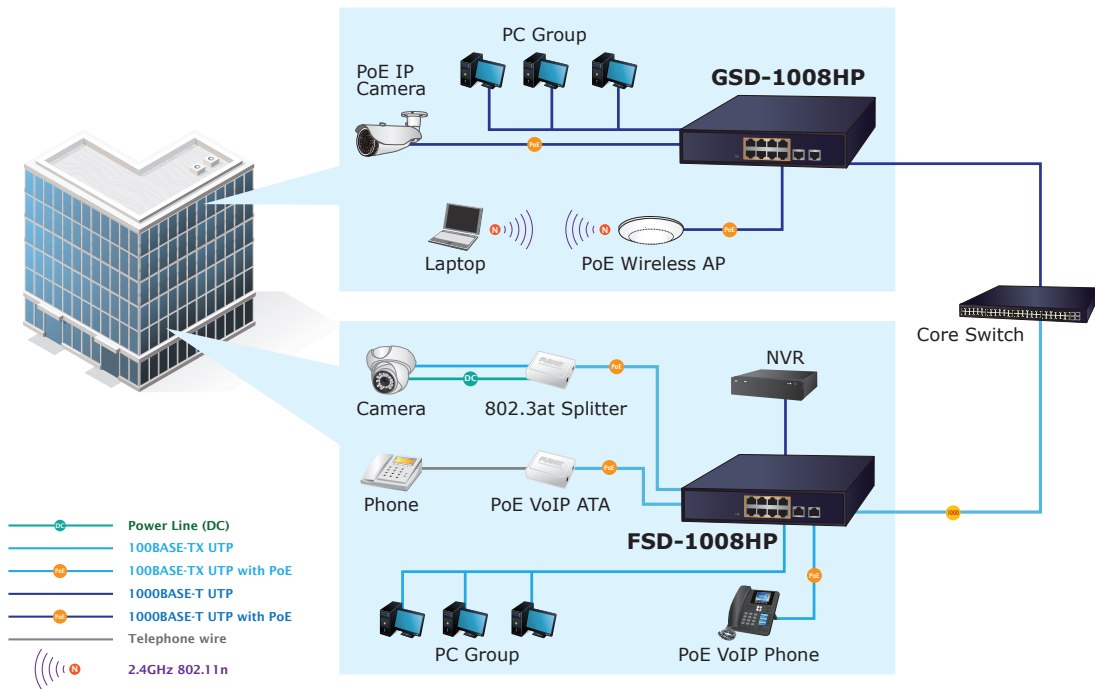


## Applications

### Different Networks Managed by One Control Center

Providing eight 802.3at PoE+ in-line power interfaces, the FSD-1008HP can easily build a power source that centrally controls the enterprises' IP phone systems, IP camera systems and wireless AP systems. For instance, up to 8 cameras can be installed around the corner in the company for surveillance demands or up to 8 wireless APs can be built to have a wireless roaming environment in the office. Without the power-socket limitation, the FSD-1008HP makes the installation of cameras or wireless APs easier and more efficient.





## Specifications

Model	FSD-1008HP
<b>Hardware Specifications</b>	
Copper Port	10 10/100/BASE-TX MDI/MDIX Ports
PoE Injector Port	8-port with 802.3af/at PoE injector function with Port-1 to Port-8
Switch Architecture	Store-and-Forward
Switch Fabric	2Gbps/non-blocking
Switch Throughput@64 bytes	1.48Mpps@64 bytes
MAC Address Table	1K entries, automatic source address learning and aging
Maximum Frame Size	1522 bytes
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
LED Indicators	<b>System</b> <ul style="list-style-type: none"> <li>■ Power (Green)</li> </ul> <b>10/100BASE-TX RJ45 interfaces</b> <ul style="list-style-type: none"> <li>■ 10/100Mbps LNK/ACT (Green)</li> </ul> <b>PoE interfaces</b> <ul style="list-style-type: none"> <li>■ PoE-in-Use (Amber)</li> </ul>
DIP Switch	Selectable operation mode <ul style="list-style-type: none"> <li>■ Standard</li> <li>■ VLAN</li> <li>■ Extend</li> </ul>
Dimensions (W x D x H)	220 x 150 x 43 mm (1U height)
Enclosure	Metal
Weight	1166 g
Power Requirements	AC 100~240V, 50/60Hz, 2.5A max.
Power Consumption/Dissipation	Max. 127 watts/433.3 BTU
Thermal Fan	Fanless
<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
PoE Power Output	Per port 54V DC, 540mA. max. 30 watts
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	120 watts

Max. Number of Class 2 PDs	8
Max. Number of Class 3 PDs	8
Max. Number of Class 4 PDs	4
<b>Standards Conformance</b>	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow control and back pressure IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)
<b>Environment</b>	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

## Ordering Information

FSD-1008HP	8-Port 10/100TX 802.3at PoE + 2-Port 10/100TX Desktop Switch
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## Related PoE Products

GSD-1008HP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch (120 watts)
FGSD-1011HP	8-Port 10/100TX 802.3at PoE + 1-Port 10/100/1000T + 1-Port 100/1000X SFP Desktop Switch (120 watts)
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera with Extended Support
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom
ICF-1900	High Definition Touch Color Screen Smart Media Android SIP Conference Phone