

## 4-Port 10/100Mbps 802.3at / af PoE + 1-Port 10/100Mbps Desktop Switch

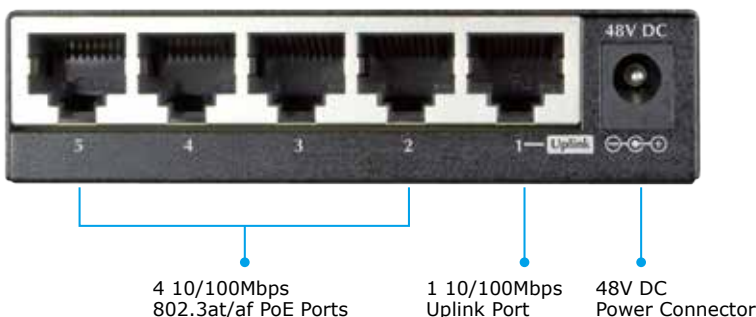


With **compact, easy and quick deployment** for SOHO / home-use PoE application environment, PLANET has released the FSD-504HP, a brand-new desktop size 802.3at / af PoE Switch. The FSD-504HP's advanced features are as follows:

- 4-port PoE, 60-watt PoE budget
- One 10/100Mbps uplink port
- Compact desktop palm size design

### Centralized Power Distribution for Small Ethernet Networking

The FSD-504HP is a **4-port 10/100Mbps 802.3at/af Power over Ethernet + 1-port Fast Ethernet Switch** with a total PoE budget of **60 watts**, which is an ideal solution to meeting the demand for sufficient PoE power for network applications. The four 802.3at / af PoE ports provide PoE power injector function which is able to drive 2 IEEE 802.3at compliant powered devices or 4 IEEE 802.3af compliant powered devices. The FSD-504HP also provides a simple, cost-effective and non-blocking wire-speed performance. It comes with a compact palm size metal housing, suitable for the desktop deployment of SOHO or home-use network environment.



### RJ-45 Interface

- Five 10/100Mbps Fast Ethernet ports
  - Four ports support 48V DC power to PoE Powered Device
  - One 10/100Mbps uplink port

### Power over Ethernet

- Complies with IEEE 802.3at / af Power over Ethernet Mid-Span PSE
- Up to 4 IEEE 802.3at / af devices powered
- Supports PoE Power up to 30 watts for each PoE port
- 60-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
- Flow control for Full Duplex operation and back pressure for Half Duplex operation
- 1536bytes packet size support
- Integrates address look-up engine, supporting 1K absolute MAC addresses
- Automatic address learning and address aging

### Hardware

- Desktop palm size
- LED indicators for PoE ready / activity and LINK / ACT
- One DC 48V power jack

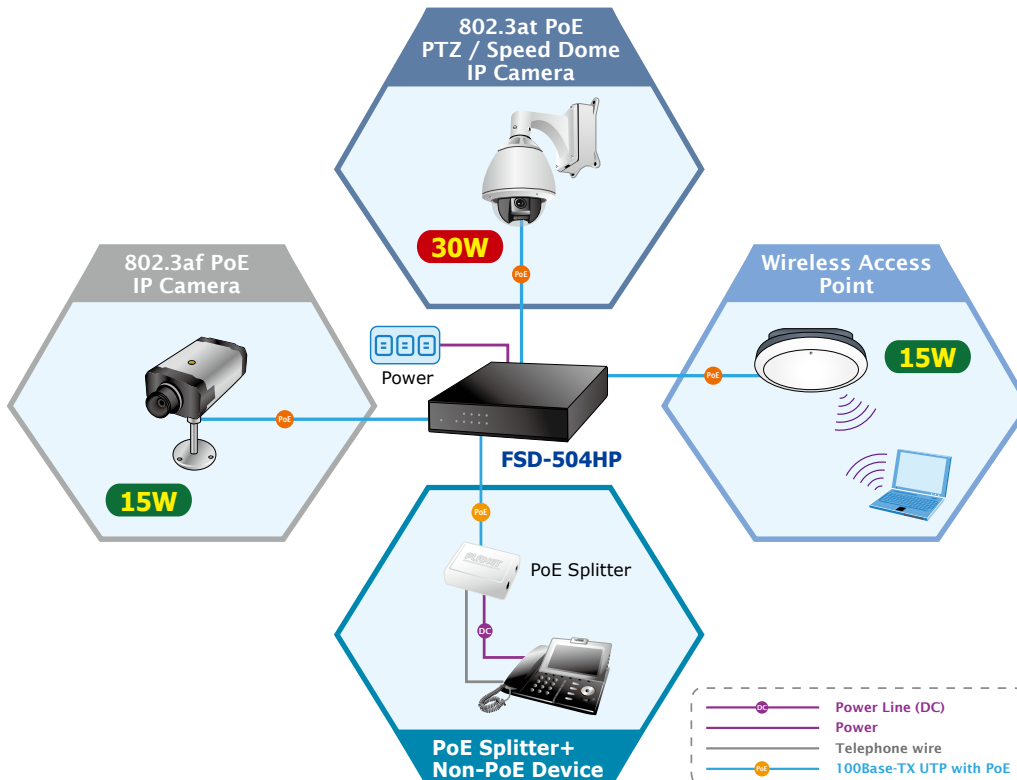
*Ideal Solution for SOHO Securing IP Surveillance Infrastructure*

Targeting the growing popular IP surveillance applications, the FSD-504HP 802.3at / af PoE Switch is also positioned as a Surveillance Switch **for quick and easy PoE IP camera deployment with power feeding**. The FSD-504HP supports both 802.3at and 802.3af PoE standards along with 4 10/100Base-TX ports featuring up to 30 watts per RJ-45 copper interface, and 1 extra Fast Ethernet TP interface supporting high speed transmission of surveillance images and videos.



*Easy Cable Connection*

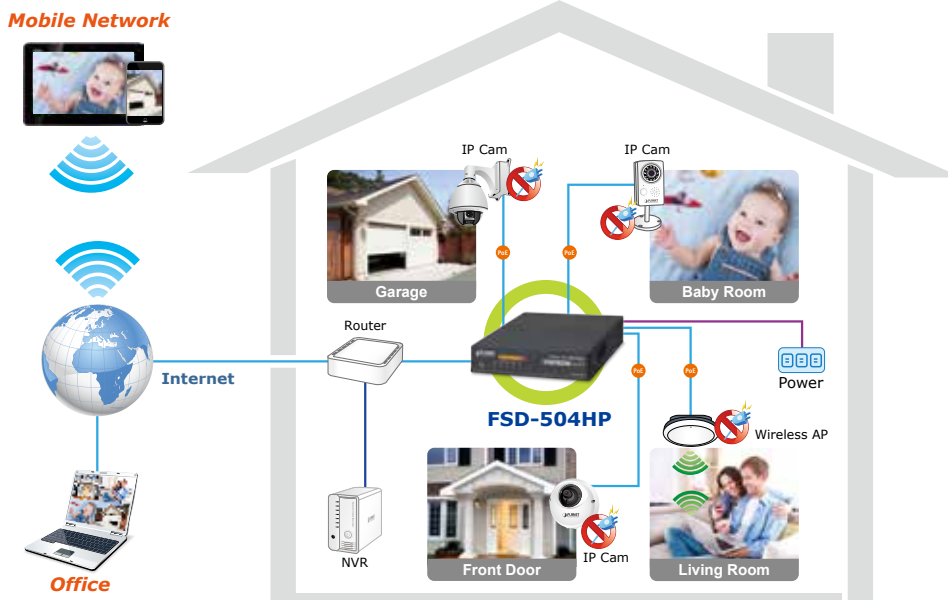
With data switching and power over Ethernet integrated into one unit, the FSD-504HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. With 4 PoE interfaces, the FSD-504HP 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

### SOHO / HOME-Use Fast Ethernet PoE Network Deployment

With its expanded home-use feature, the FSD-504HP 802.3at / af PoE Switch helps SOHO / home users to create an integrated data, video, and powered network. The wireless AP and PoE IP camera devices work perfectly with the FSD-504HP, which injects power through the Ethernet cables, thus helping SOHO / home users to build a cost-effective and reliable PoE Networking environment easily.

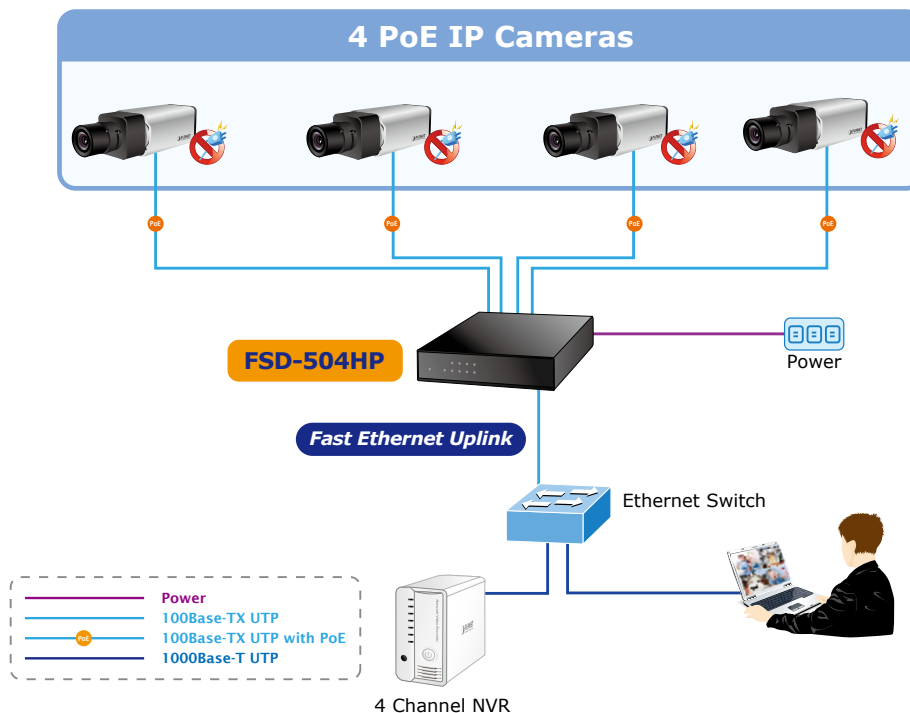


### Perfectly Integrated Solution for PoE IP Camera and NVR System

The FSD-504HP provides four 802.3at / af PoE ports for catering to small-scale home and SOHO IP surveillance networks at a lower total cost. The FSD-504HP comes with a high performance switch architecture and 60-watt PoE power budget. The recorded video files from the 4 PoE IP cameras can be powered by the FSD-504HP and saved in the 4-channel NVR system or using surveillance software to perform comprehensive security monitoring.

For instance, one FSD-504HP can be combined with one 4-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 FSD-504HP's Fast Ethernet TP interface also provides Fast Ethernet TP connection for uplink to NVR systems or public server groups.

### Perfect Combination 4-Port PoE Switch + 4-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 FSD-504HP 802.3at / af PoE 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 FSD-504HP.

The wireless AP group, PoE IP phones and analog telephony adapter work perfectly with the FSD-504HP, which injects power through the Ethernet cables. With the FSD-504HP, IP telephony deployment becomes more reliable and cost effective, thus helping enterprises save tremendous cost when upgrading from the traditional telephony system to IP telephony communications infrastructure.



## Specifications

Model	FSD-504HP	
<b>Hardware</b>		
Network Connector	5-Port RJ-45 for 10/100Base-TX, auto MDI / MDIX	
PoE Inject Port	4 ports with 802.3at / af PoE injector function (port 2 to port 5)	
LED Display	System: Power (Green) Per PoE port: PoE (Orange, port 2 to port 5) LNK/ACT (Green, port 1 to port 5)	
Switch Architecture	Store and Forward switch architecture	
MAC Address Table	1K MAC address table with auto learning function	
Switch Fabric	1Gbps	
Switch Throughput	0.74Mpps @64Bytes	
Maximum Packet Size	1536Bytes	
Flow Control	Back pressure for Half-Duplex. IEEE 802.3x Pause Frame for Full-Duplex	
Power Requirements	DC 48V, 1.5A.	
Power Consumption	Max.62 watts / 211.5 BTU	
Dimensions (W x D x H)	90 x 80 x 21 mm	
Weight	172g	
<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	Mid-Span	
Power Pin Assignment	4/5(+), 7/8(-)	
PoE Power Output	Per Port 48V DC, 375mA. Max. 15.4 watts (IEEE 802.3af) Per Port 48V DC, 375mA. Max. 30 watts (IEEE 802.3at)	
PoE Power Budget	60 watts	
Number of 802.3af PD Class 0, 1, 2, 3 can be powered	4	
Number of 802.3at PD Class 1, 2, 3 can be powered	4	
Number of 802.3at PD Class 0, 4 can be powered	2	
<b>Standard Conformance</b>		
EMI Safety	FCC Class A, CE	
Standard Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3x IEEE 802.3af IEEE 802.3at	Ethernet Fast Ethernet Flow Control Power over Ethernet High Power over Ethernet
<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

FSD-504HP	4-Port 10/100Mbps 802.3at / af PoE + 1-Port 10/100Mbps 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-HM126	H.264 Full HD Box IP Camera
ICA-HM127	3 Mega-pixel H.264 Box 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
WDAP-C7400	900Mbps Dual Band Ceiling Mount Wireless Access Point
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-W2200	300Mbps 802.11n Wireless In-wall PoE Access Point
ICF-1700	Touch Screen Internet Multimedia Phone
VIP-255PT	Multi-language PoE IP Phone
VIP-256PT	802.3af PoE SIP IP Phone
VIP-360PT	Business PoE IP Phone
VIP-361PE	Professional PoE IP Phone (5-Line)
VIP-560PT	Professional PoE IP Phone