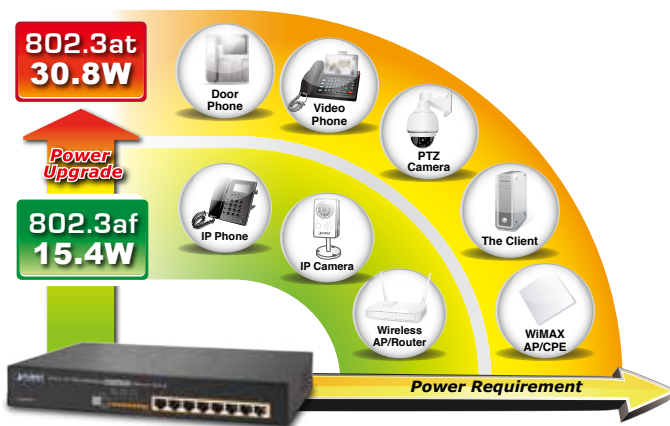


8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch



High Power PoE for Security and Public Service Applications

To fulfill the demand of High Power PoE for network applications with Gigabit transmission, PLANET GSD-808HP 802.3at PoE Gigabit Ethernet Switch is an ideal solution. Each 10/100/1000Mbps port of the GSD-808HP features **IEEE 802.3af** and **IEEE 802.3at** Power over Ethernet (PoE) that combine up to **130-watt** PoE budget on the whole system. It is designed specifically to satisfy the growing demand of higher power consuming network PD (powered devices) such as **PTZ (Pan, Tilt & Zoom) / speed dome network cameras**, multi-channel (802.11a/b/g/n) wireless LAN access points and other network devices by doubling PoE power, more than the current conventional 802.3af PoE.



Automatic PoE Management

To facilitate power management, the GSD-808HP implements powerful PoE intelligent features:

- PoE Power Usage Threshold Alarm
- PoE Power Budget Control

The GSD-808HP is equipped with two orange LEDs located on the left side of the GSD-808HP front panel. These are PoE Power Usage indicators. 1-4 means that it is counting from port 1 to 4 of PoE output, while 5-8 means that it is counting from port 5 to 8 of PoE output. The LED will light up to show 80% when 1-4 or 5-8 PoE output is over 80%, and if 1-4 or 5-8 PoE output is over 95%, the LED will blink to warn customers. With these LED indications, you can monitor the current PoE power usage status of the GSD-808HP easily and efficiently.

RJ45 Interface

- 8 10/100/1000Mbps Gigabit Ethernet ports
- 8-Port supports 52V DC power to PoE powered device

Power over Ethernet

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

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 8K absolute MAC addresses
- 9K Jumbo Frame supports all speeds (10/100/1000Mbps)
- Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

Hardware

- 12-inch desktop size, 1U height
- LED indicators for PoE ready, PoE activity and PoE Usage Alarm
- Fanless design
- Ethernet Link Energy-saving technology
 - Link down power saving
 - Intelligent scales power based on cable length



PoE Usage
 $\geq 80\%$ will Light up
 $\geq 95\%$ will Blink

Energy-Saving

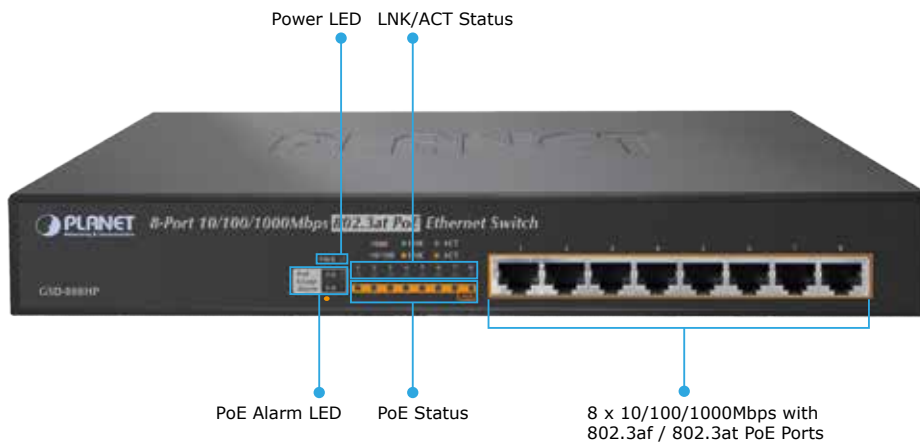
The GSD-808HP uses new engine that incorporates advanced Green Networking technologies:

- Idle Mode Link Down power saving
- Intelligent Scales Power based on cable length

The Idle mode Link Down power saving of the GSD-808HP complies with IEEE 802.3az Energy Efficient Ethernet (EEE) standard to automatically lower power for a given port when it is not linked.

Easy Installation and Cable Connection

Providing data transfer and High Power PoE in one unit, the GSD-808HP is able to reduce the need of extension cables and dedicated electrical outlets on the wall, ceiling or any unreachable place. It helps to lower the installation costs and simplify the installation effort.

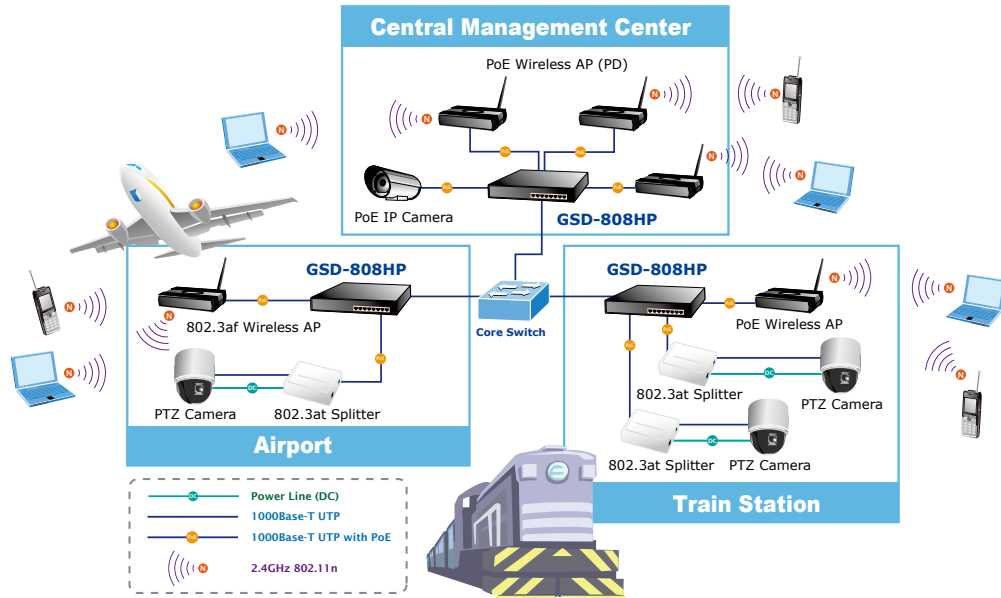


All RJ45 copper interfaces of the GSD-808HP support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cables. It also supports standard auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

Applications

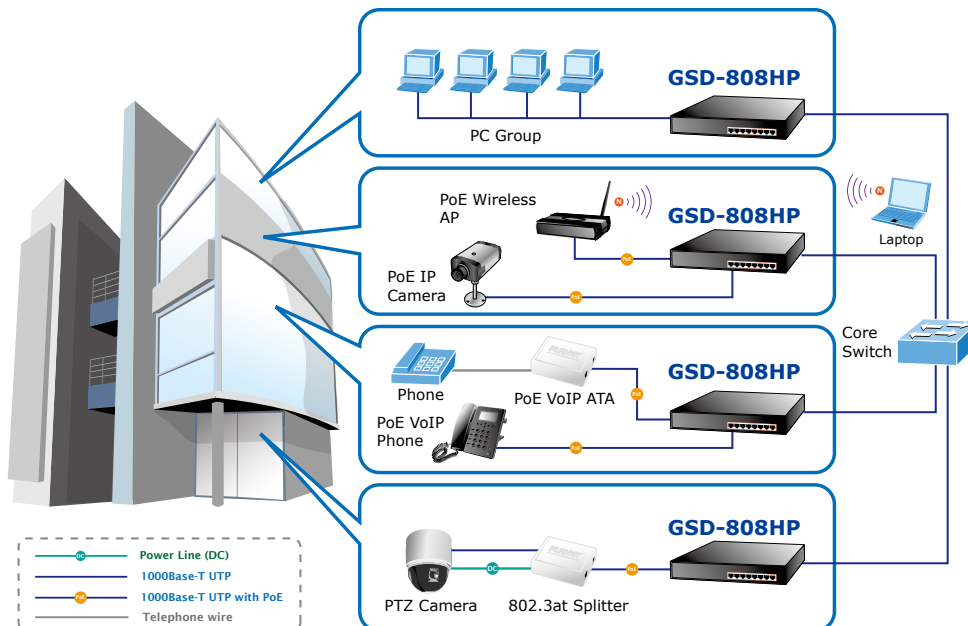
High Power IP Surveillance and Wireless LAN Service in Public Transportation

Having the capability of IEEE 802.3at Power over Ethernet standard, the GSD-808HP can directly connect with any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras, PTZ speed dome cameras, color touch-screen voice over IP (VoIP) telephones, and multi-channel wireless LAN access points. Besides the wired Internet network, the wireless LAN would be more efficient for the transportation station to provide high-speed and wide area Internet services for travelers. By adopting PoE wireless LAN structure, the transportation authority gains benefits from less cost while providing better Internet services in wider areas for the travelers.



Flexible VoIP Deployment in IP Office

With the business office expansion, the additional telephones required can be installed at less cost via the implementation of PoE IP Telephony system, when compared with that of the traditional circuit wiring telephony system. PLANET GSD-808HP 802.3at Desktop PoE Switch helps enterprises to create an integrated data, voice, and powered network. PLANET 802.3af compliant IP Phones and Analog Telephony Adapter can be installed without an additional power cable because the power can be provided via the standard Ethernet cable from the connected GSD-808HP. With the GSD-808HP, 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	GSD-808HP 8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch	
Hardware Specifications		
Hardware Version	4	
Network Connector	8-port RJ45 for 10/100/1000Base-TX	
PoE Inject Port	8-port with 802.3af / 802.3at PoE injector function	
LED Display	System: Power (Green) PoE Usage Alarm: 1-4 (Orange) 5-8 (Orange) Per port : PoE-in-use (Orange) 1000 LNK/ACT (Green) 10/100 LNK/ACT (Orange)	
Switch Architecture	Store and Forward switch architecture	
MAC Address	8K MAC address table with auto learning function	
Switch Fabric	16Gbps	
Switch Throughput	11.9Mpps@64Bytes	
Jumbo Packet Size	9K Bytes	
Flow Control	Back pressure for half-duplex. IEEE 802.3x pause frame for full-duplex	
Power Requirements	100~240V AC, 50/60Hz, 2A (max.)	
Power Consumption	Max. 150 watts / 511 BTU	
Dimensions (W x D x H)	280 x 180 x 44mm	
Weight	1.67kg	
Power over Ethernet		
PoE Standard	IEEE 802.3af Power over Ethernet / PSE IEEE 802.3at Enhancement Power over Ethernet / PSE	
PoE Power Output	Per port 52V DC, 275mA. (max.)15.4 watts (IEEE 802.3af) Per port 52V DC, 535mA. (max.) 30 watts (IEEE 802.3at)	
PoE Power Supply Type	End-Span	
Power Pin Assignment	1/2(+), 3/6(-)	
PoE Power Budget	130 watts	
Max. Number of Class 2 PD	8	
Max. Number of Class 3 PD	8	
Max. Number of Class 4 PD	4	
Environment		
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 Conformance		
Standard Compliance	IEEE 802.3	Ethernet
	IEEE 802.3u	Fast Ethernet
	IEEE 802.3ab	Gigabit Ethernet
	IEEE 802.3x	Flow Control
	IEEE 802.3af	Power over Ethernet
	IEEE 802.3at	Enhancement Power over Ethernet
	IEEE 802.3az	Energy-Efficient Ethernet
EMI Safety	FCC Class A, CE	

Ordering Information

GSD-808HP	8-Port 10/100/1000Mbps 802.3at PoE 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 Fish-Eye IP Camera
ICA-HM127	3 Mega-pixel H.264 Box IP Camera
ICA-HM131	H.264 Full-HD Fixed Dome 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
ICF-1700	Touch Screen Internet Multimedia Phone
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 Gigabit Ethernet Extender
VIP-256PT	802.3af PoE SIP IP Phone
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-C3220	300Mbps 802.11n Wireless Ceiling Mount Range Extender