

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



High Power PoE for Security and Public Service Applications

To fulfill the High Power PoE demand of Gigabit network applications, the new member in PLANET PoE Switch family – the GSD-808HP is an ideal solution. The GSD-808HP is equipped with **eight 10/100/1000Mbps PoE** ports and internal power supply in a simple 13-inch, desktop size metal case. Each of the Gigabit ports feature High Power **IEEE 802.3at Power over Ethernet** (PoE) that enables up to **30 Watts** power output and data transmission both delivered over one Cat.5E / 6 Ethernet cable, providing double PoE power than conventional 802.3af PoE currently.

Plug & Play PoE Function

The 8 Gigabit High Power PoE ports in the GSD-808HP support both **802.3af** and **802.3at PoE** standards to allow users flexibly deploy standard and high powered devices simultaneously with no need of software configuration. By offering **130 Watts PoE budget**, maximum eight 15.4 Watts IEEE 802.3af devices or four 30 Watts IEEE 802.3at devices can be easily installed regardless of the power-socket limitation. Simply plug in the Ethernet cables and power cord, the GSD-808HP is ready to provide Gigabit high speed network communication and high power PoE injector functions.

Automatic PoE Management

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

- Over Temperature Protection
- PoE Power Usage Display

The automatic **Over Temperature Protection** helps to prevent power budget overloading while temperature rises. The four orange LEDs on the right hand side of the GSD-808HP front panel indicates **"PoE Power Usage" by four level - 25%, 50%, 75% and 95% positioned from the bottom to the top**. With these LED indications, you can monitor the PoE power status of the GSD-808HP easily and efficiently.



Easy Installation & Cable Connection

Providing data transfer and High Power PoE in one unit, the GSD-808HP shall 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 RJ-45 copper interfaces in the GSD-808HP support 10/100/1000Mbps Auto-Negotiation 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.

KEY FEATURES

RJ-45 INTERFACE

- 8-Port 10/100/1000Mbps Gigabit Ethernet ports
- 8-Port supports 56V DC power to PoE Powered Device

POWER OVER ETHERNET (PoE)

- Complies with IEEE 802.3af / 802.3at Power over Ethernet End-Span PSE
- Up to 8 IEEE 802.3af / 802.3at devices powered
- Supports PoE Power up to 30 Watts for each 802.3at PoE port
- Total 130 Watts PoE power budget
- Over Temperature Protection
- Auto detect powered device (PD)
- Circuit protection prevents power interference between ports
- 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 at all speeds (10/100/1000Mbps)
- Automatic address learning and address aging

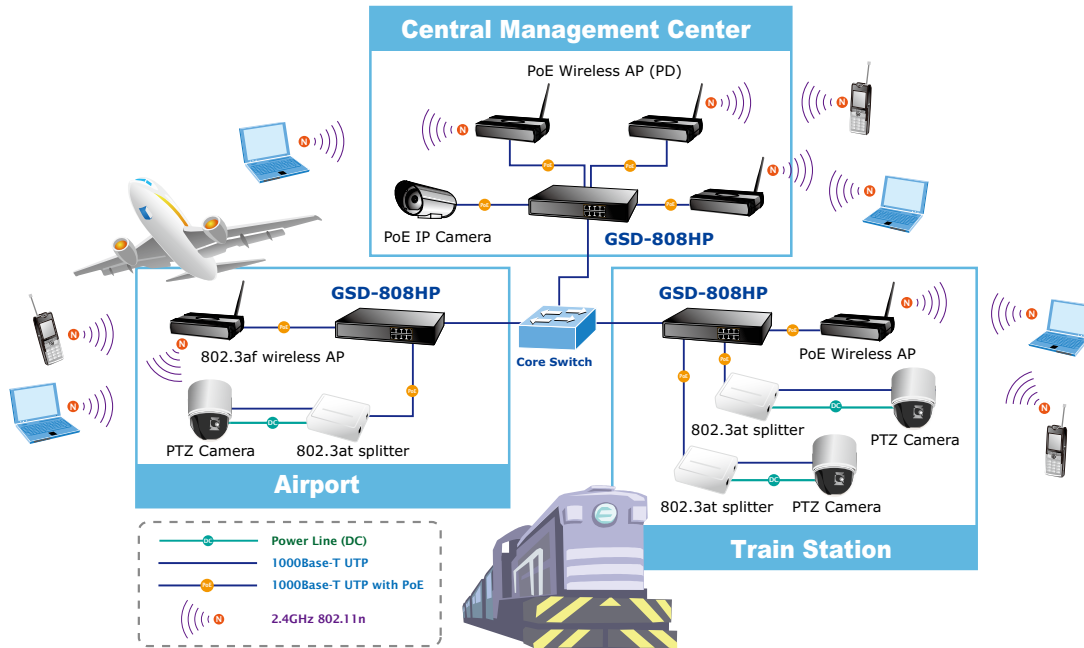
HARDWARE

- 13-inch desktop size, rack mountable; 1U height
- LED indicators for system Power, Fan Failure, per port speed, Link / Act
- LED indicators for per port PoE In-Use and PoE Power Usage (25%, 50%, 75% and 95%)
- 1 silent FAN to provide stable and efficient power performance
- Energy-Saving technology
 - Link down power saving
 - Intelligent scales power based on cable length

APPLICATIONS

High Power IP Surveillance and Wireless LAN Service in Public Transportation

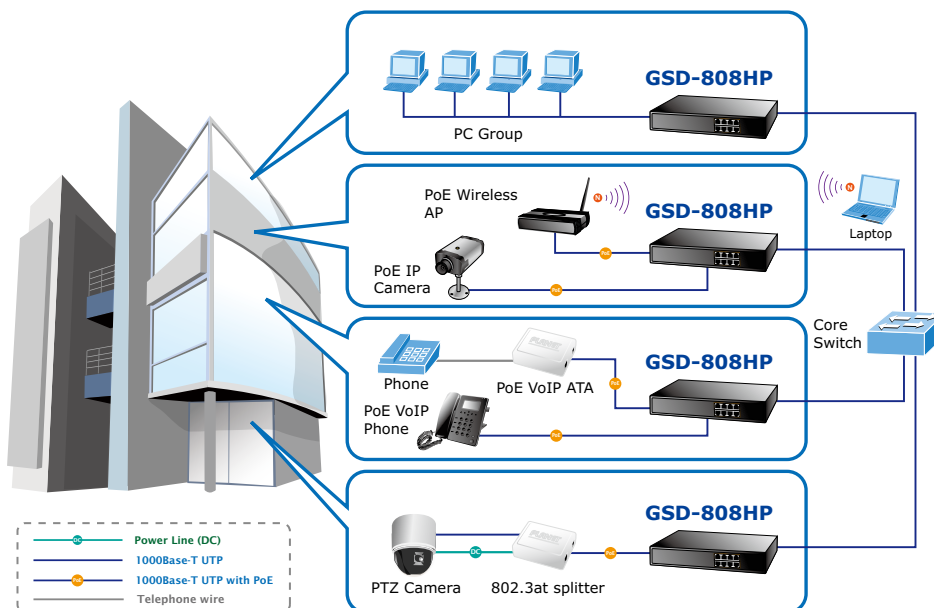
Having the capability of IEEE 802.3at Power over Ethernet standard, the GSD-808HP can directly connect with any IEEE 802.3at end-nodes like PTZ (Pan, Tilt & Zoom) network cameras, PTZ Speed Dome cameras, color touch- screen Voice over IP (VoIP) telephones, and multi- channel wireless LAN access points. 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.



IP Office

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. 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 can be installed without additional power cable because the power can be provided via the standard Ethernet cable from the connected GSD-808HP. PoE IP Phones and Analog Telephony Adapter work perfectly with the GSD-808HP which injects power through the Ethernet cables.

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.



SPECIFICATION

Product	8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch	
Model	GSD-808HP	
Hardware Specification		
Network Connector	8-Port RJ-45 for 10/100/1000Base-T	
PoE Inject Port	8-Port with 802.3af / 802.3at Power over Ethernet (PoE) injector function	
LED Display	System: Power x1 (Green), FAN Alert x1 (Orange), PoE Power Usage x4 (Orange) Per Port: PoE In-use (Orange), Speed (Green), LNK/ACT (Green)	
Switch Architecture	Store and Forward switch architecture	
MAC Address Table	8K MAC address table with Auto learning function	
Switch Fabric	16Gbps	
Switch Throughput	11.9Mpps	
Jumbo Packet Size	9K Bytes	
Flow Control	Back pressure for Half-Duplex. IEEE 802.3x Pause Frame for Full-Duplex	
Power Requirement	AC 100~240V, 50/60Hz, 1.5A	
Power Consumption	150 Watts / 511BTU	
Dimension (W x D x H)	330 x 155 x 43.5 mm	
Weight	1.56kg	
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, 275mA. Max. 15.4 Watts (IEEE 802.3af) Per Port 56V DC, 535mA. Max. 30 Watts (IEEE 802.3at)	
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	
Standard Conformance		
EMI Safety	FCC Class A, CE	
Operating environment	0 ~ 50 Degree C	
Storage environment	-40 ~ 70 Degree C	
Operating Humidity	5 ~ 95%, Relative Humidity, non-condensing	
Storage Humidity	5 ~ 95%, Relative Humidity, non-condensing	
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	High Power over Ethernet

ORDERING INFORMATION

GSD-808HP	8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch
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RELATED POE PRODUCTS

POE-1625	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-1525	IEEE 802.3af Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Ethernet Extender
ICA-H312	H.264 25-meter IR Internet Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM351	2 Mega-Pixel 35M IR Outdoor Box PoE IP Camera
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WNAP-3000PE	802.11n Enterprise PoE Access Point
WAP-7500	5GHz 802.11a Wireless LAN Outdoor AP/Extender