

# 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-808HP2 is an ideal solution. The GSD-808HP2 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 per port and data transmission both delivered over one Cat.5E / 6 Ethernet cable, providing double PoE power than current 802.3af PoE injector devices.



### Plug & Play PoE Function

The 8 Gigabit High Power PoE ports in the GSD-808HP2 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 **240 Watts PoE budget**, maximum eight 15.4 Watts IEEE 802.3af devices or eight 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-808HP2 is ready to provide Gigabit high speed network communication and high power PoE injector functions.

### Automatic PoE Management

To facilitate power management, the GSD-808HP2 implements powerful PoE intelligent features:

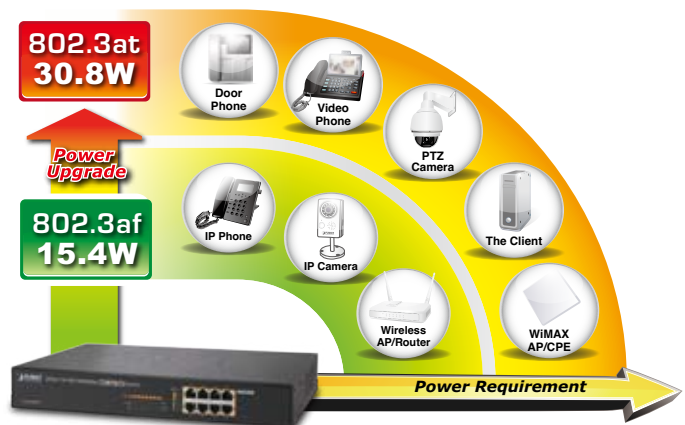
- **Over Temperature Protection**
- **PoE Power Usage Display**

The automatic **Over Temperature Protection** helps to prevent power budget overloading while the temperature rises. The four orange LEDs on the right hand side of the GSD-808HP2 front panel indicates **“PoE Power Usage”** by four levels - **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-808HP2 easily and efficiently.

### Easy Installation & Cable Connection

Providing data transfer and High Power PoE capability in one unit, the GSD-808HP2 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.

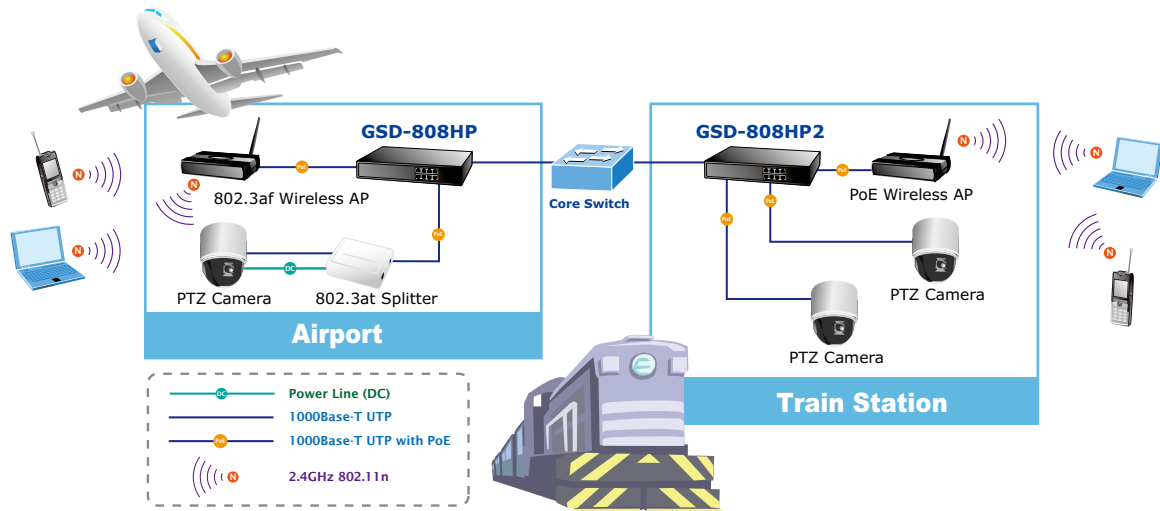
All RJ-45 copper interfaces in the GSD-808HP2 support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.



**APPLICATIONS**

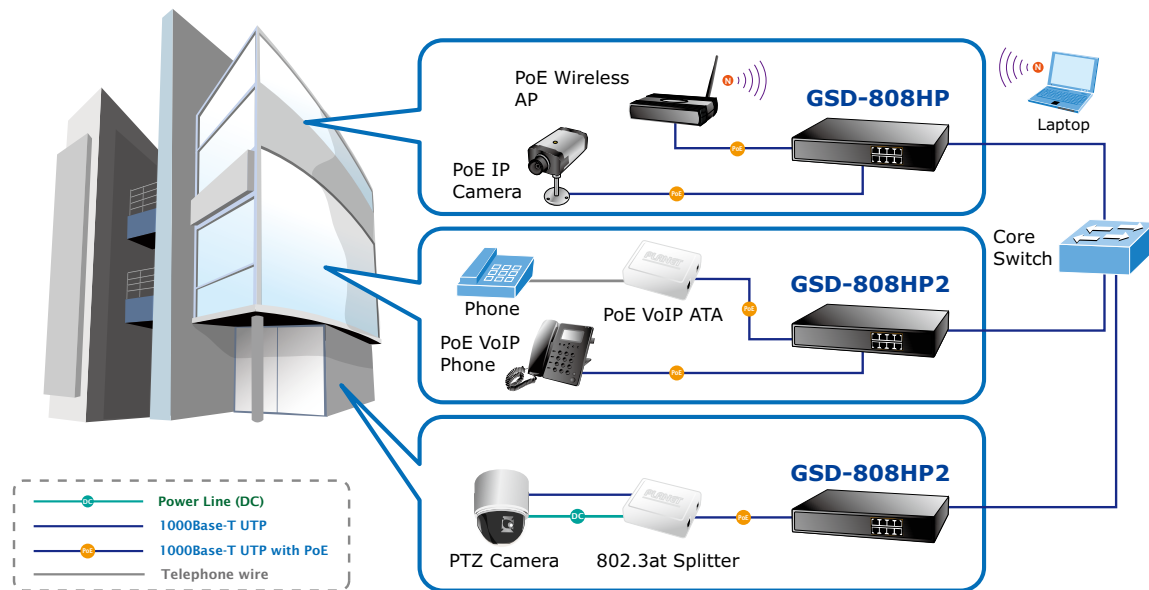
*High Power IP Surveillance and Wireless LAN Service in Public Transportation*

Applying the IEEE 802.3at Power over Ethernet standard, the GSD-808HP2 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 stations to provide high-speed and wide area Internet services for travelers. By adopting the 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 increased extension 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-808HP2 802.3at Desktop PoE Switch helps enterprises to create an integrated data, voice, and powered network. It facilitates the construction of PoE IP Telephony system with PLANET 802.3af compliant IP Phones because the GSD-808HP2 can directly provide the power to PoE IP Phones and Analog Telephony Adapters via the standard Ethernet cable without the need of additional power cables. With the GSD-808HP2, 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.



## KEY FEATURES

### RJ-45 INTERFACE

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

### POE OVER ETHERNET

- Complies with IEEE 802.3af / 802.3at Power over Ethernet End-Span PSE
- Up to 8 IEEE 802.3af / 802.3at devices powered
- 240 Watts PoE Budget for whole system
- PoE Power up to 30 Watts for each 802.3at PoE port
- Over Temperature Protection support
- 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 speed (10/100/1000Mbps)
- Automatic address learning and address aging

### HARDWARE

- 13-inch desktop size mountable in 19-inch rack
- 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 FAN to provide stable and efficient power performance
- Ethernet Link Energy-Saving technology
  - Link down power saving
  - Intelligent scales power based on cable length

## SPECIFICATION

Product	<b>8-Port 10/100/1000Mbps 802.3at PoE Desktop Switch</b>
Model	GSD-808HP2
<b>Hardware Specification</b>	
Network Connector	8-Port RJ-45 for 10/100/1000Base-T
PoE Inject Port	8-Port with 802.3af / 802.3at 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, 2.5A
Power Consumption	250 Watts / 853BTU
Dimension (W x D x H)	330 x 155 x 43.5 mm
Weight	1.66 Kg
<b>Power over Ethernet</b>	
PoE Standard	IEEE 802.3af / 802.3at Power over Ethernet / PSE
PoE Power Supply Type	End-Span
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)
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	240 Watts
Max. number of Class 2 PD	8
Max. number of Class 3 PD	8
Max. number of Class 4 PD	8

**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**

<b>GSD-808HP2</b>	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-3350V	3 Mega-Pixel Vari-Focal Bullet IR IP Camera
ICA-5350V	3 Mega-Pixel Vandal Proof IR IP Camera
ICA-HM101	2 Mega-Pixel PoE Cube IP Camera
ICA-HM126	H.264 Full HD Box IP Camera
ICA-HM126R	H.264 Full HD Real-Time Box IP Camera
ICA-HM127	3 Mega-Pixel H.264 Box IP Camera
ICA-HM131	H.264 Full-HD Fixed Dome IP Camera
ICA-HM131R	H.264 Real Time Full-HD Fixed Dome IP Camera
ICA-HM132	H.264 2 Mega-Pixel 20M IR Vari-Focal Dome IP Camera
ICA-HM135	H.264 Mega-Pixel 20M IR Vandal Proof Dome IP Camera
ICA-HM136	H.264 2 Mega-Pixel 20M IR Vandal Proof 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-HM317	3 Mega-Pixel 25M IR Outdoor Bullet PoE IP Camera
ICA-HM351	2 Mega-Pixel 35M IR Outdoor Box PoE IP Camera
ICA-HM830	H.264 2 Mega-Pixel Fish-Eye Panorama IP Camera
ICA-HM835	2 Mega-Pixel Vandal Proof Fish-Eye 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
WNAP-C3220	802.11n Wireless Ceiling Mount PoE Access Point
WNAP-1120PE	802.11n Wireless Access Point with PoE
WNAP-3000PE	802.11n Enterprise PoE Access Point
VIP-254PT	802.3af PoE SIP IP 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-560PE	Professional PoE IP Phone with Expansion Function
VIP-560PT	Professional PoE IP Phone