# 8-Port 10/100/1000T 802.3at PoE + 1-Port Gigabit Desktop Switch

Centralized Power Distribution for Ethernet Networking

The GSD-908HP, a member in the PLANET 802.3af/802.3at PoE Unmanaged Gigabit Ethernet Switch family, is an **8-port 10/100/1000T 802.3at Power over Ethernet + 1-port 10/100/1000T Desktop Switch** with a total of 100 watts of PoE budget, which is an ideal solution to fulfilling the demand of sufficient PoE power for network applications with Gigabit Ethernet speed transmission. The eight 802.3af/802.3at PoE Gigabit ports provide PoE power injector function which is able to drive 8 IEEE 802.3af compliant powered devices or 3 IEEE 802.3at compliant powered devices. The GSD-908HP also provides a simple, cost-effective and non-blocking Gigabit wire-speed performance. It comes with a metal compact housing, suitable for desktop deployment in SOHO office or department network application.
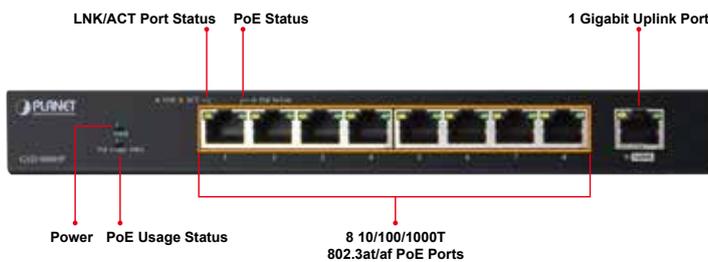
Perfectly Integrated Solution for PoE IP Camera and NVR System

Different from the general PoE Switch which usually comes with 12 or 24 PoE ports, the GSD-908HP provides eight 802.3af/802.3at PoE Gigabit ports for catering to small scale of IP surveillance networks at a lower total cost. The GSD-908HP comes with high performance switch architecture and 100-watt PoE power budget. The recorded video files from 8 PoE IP cameras can be powered by the GSD-908HP and saved in the 8-channel NVR system or surveillance software to perform comprehensive security monitoring. For instance, one GSD-908HP can be combined with one 8-channel NVR and 8 PoE IP cameras as a kit for the administrators to centrally and efficiently manage the surveillance system in the local LAN and the remote site via Internet.

RJ45 Interface
- Complies with IEEE 802.3, 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T
- 9-Port 10/100/1000Mbps Gigabit Ethernet Switch
- 8-Port supports 51V DC power to PoE Powered Device (Port 1 to port 8)

Power over Ethernet
- Complies with IEEE 802.3af/802.3at Power over Ethernet End-Span PSE
- Up to 8 IEEE 802.3af devices powered
- Supports PoE Power up to 15.4 watts for each PoE port
- Up to 3 IEEE 802.3at devices powered
- Supports PoE Power up to 30 watts for each PoE port
- 100-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, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation and auto MDI/MDI-X
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- Integrates address look-up engine, supporting 4K absolute MAC addresses
- 192 KB packet buffer
- 9K Jumbo frame supports at 1000Mbps duplex mode
- Automatic address learning and address aging
- Supports CSMA/CD protocol

Hardware
- Made of metal, desktop size and wall-mount design
- LED indicators for system power, PoE usage 100%, per port PoE In-Use (Port 1 to port 8), per port Link/Act (10/100/1000Mbps, port 1 to port 9).
- 51V DC, 2A external power adapter
- FCC, CE Class A compliant

8-Port PoE Switch + 8-Channel NVR

Stable and High Performance Switch Architecture

The GSD-908HP has a 4K MAC address table, featuring high performance switch architecture capable of providing the non-blocking 18Gbps switch fabric and wire-speed throughput as high as 13.3Mpps, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands. Besides, the 802.3x full-duplex flow control function of the GSD-908HP enables PD devices and servers to be directly connected to the switch for wire-speed packet transfer performance without the risk of packet loss.

Easy Cable Connection

With data and power over Ethernet from one unit, the GSD-908HP 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. Providing 8 PoE interfaces, the GSD-908HP is ideal for small businesses and workgroups requiring the PoE deployment of wireless access points, IP-based surveillance camera or IP phones in any places with ease, efficiency and cost-effectiveness.

Applications

SOHO/HOME-Use Gigabit Ethernet PoE Network Deployment

With its expanded home-use feature, the GSD-908HP 802.3at 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 GSD-908HP, which injects power through the Ethernet cables, thus helping SOHO/home users to build a cost-effective and reliable PoE networking environment easily.
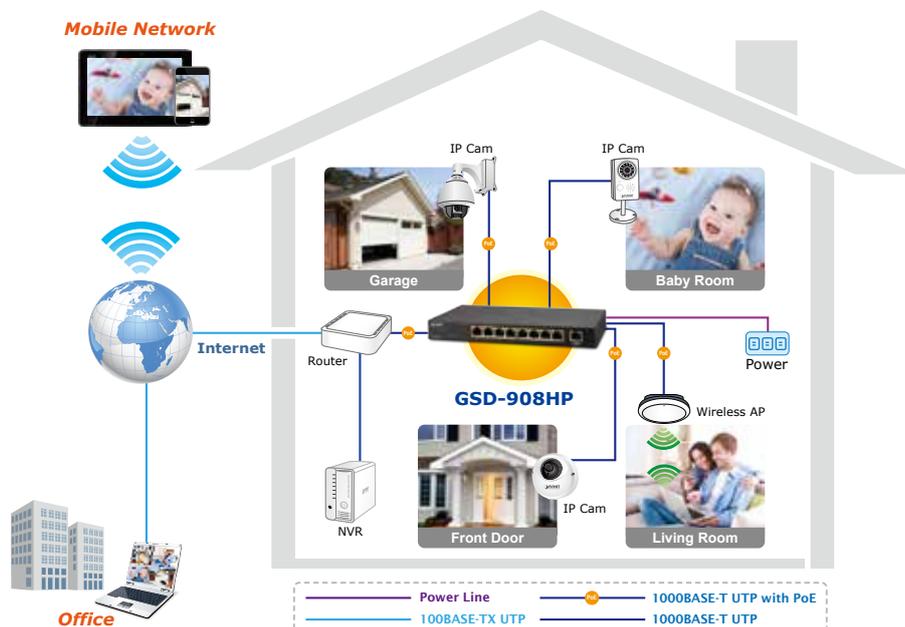
Ideal Solution for Securing IP Surveillance Infrastructure

Particularly designed for the growing popular IP Surveillance applications, the GSD-908HP 802.3at PoE Switch is positioned as a Surveillance Switch for quick and easy PoE IP camera deployment with power feeding. The GSD-908HP provides both 802.3af and 802.3at PoE functions along with 8 10/100/1000BASE-T ports featuring 15.4-watt 802.3af and 30-watt 802.3at PoE in RJ45 copper interfaces and 1 extra Gigabit TP interface supporting high-speed transmission of surveillance images and videos. The PoE Usage LED indicator on the left-hand side of the GSD-908HP front panel will light up when **PoE Power Usage** exceeds the maximum 100-watt PoE budget of the GSD-908HP.

Perfect Combination of 8-Port PoE Switch + 8-Ch NVR

8 PoE IP Cameras

GSD-908HP

Gigabit Uplink

Gigabit Switch

1000BASE-T UTP with PoE
1000BASE-T UTP

8 Channel NVR

Monitoring Center
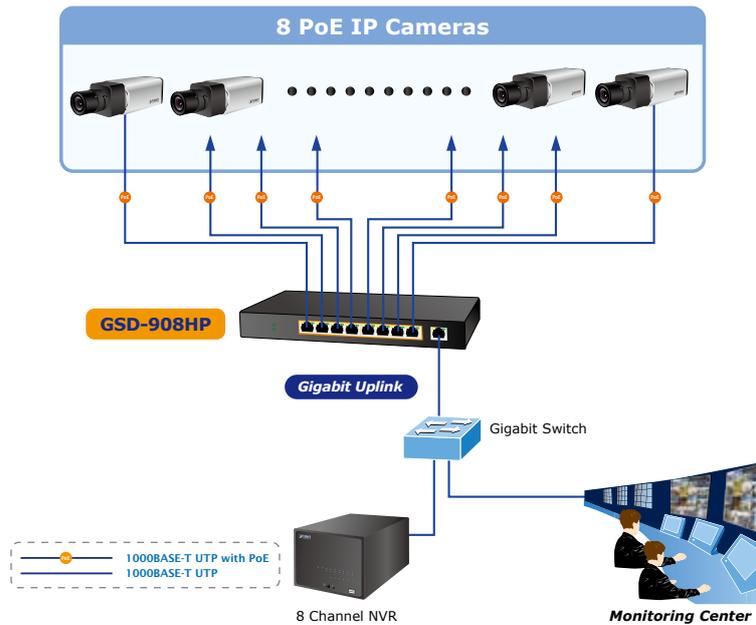
IP Office Department Workgroup PoE Switch

With the business office expansion, the additional telephones required could be installed at a much lesser cost via the implementation of PoE IP Telephony system than that of the traditional circuit wiring telephony system. The GSD-908HP PoE Ethernet 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 GSD-908HP.

The Wireless AP group, PoE IP Phones and Analog Telephony Adapter work perfectly with the GSD-908HP which injects power through the Ethernet cables. With the GSD-908HP, 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.

PoE IP Camera

PC Group

GSD-908HP

Laptop

PoE Wireless AP

Core Switch

PoE VoIP Phone

Phone

PoE VoIP ATA

GSD-908HP

PTZ Camera

802.3at Splitter

1000BASE-TX UTP with PoE
1000BASE-T UTP
Power Line (DC)
Telephone Wire
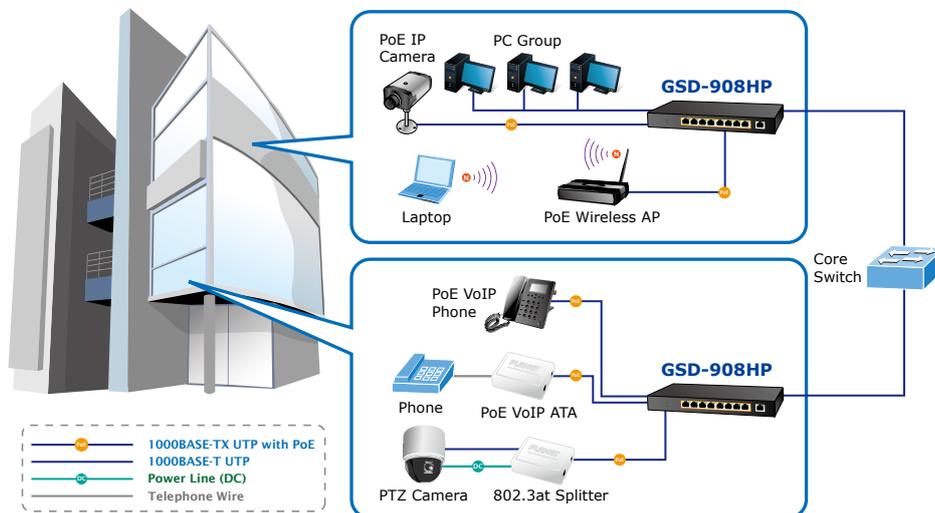
Specifications

Model	GSD-908HP
Hardware Specifications	
Network Connector	9-Port RJ45 for 10/100/1000BASE-T
PoE Inject Port	8-Port with 802.3af/802.3at PoE injector function
LED Display	**System**: Power (Green), PoE Usage 100% (Green) **Per PoE port**: PoE (Green), port 1 to port 8 LNK/ACT (Orange), port 1 to port 9
Switch Architecture	Store and forward
MAC Address Table	4K MAC address table with auto learning function
Data Buffer	192 KB
Switch Fabric	18Gbps
Switch Throughput	13.3Mpps@64bytes
Flow Control	Back pressure for half duplex. IEEE 802.3x pause frame for full duplex
Power Requirements	DC 51V, 2A max.
Power Consumption	100 watts/341BTU
Dimensions (W x D x H)	103 x 235 x 27 mm
Weight	628g
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 51V DC, 350mA. max. 15.4 watts Per port 51V DC, 600mA. max. 30 watts
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	100 watts
Max. Number of Class 2 PDs	8
Max. Number of Class 3 PDs	7
Max. Number of Class 4 PDs	3
Standard Conformance	
EMI Safety	FCC Class A, CE
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 Power over Ethernet Plus
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)

Ordering Information

GSD-908HP	8-Port 10/100/1000T 802.3at PoE + 1-Port Gigabit Desktop Switch

Related Products

ICA-2250VT	Industrial PoE Plus Outdoor IR IP Camera
ICA-3250V	Full HD Outdoor IR PoE IP Camera
ICA-4200V	Full HD 20M IR Vari-focal Dome IP Camera
ICA-4500V	5 Mega-pixel 20M IR Vari-focal Dome IP Camera
ICA-E3550V	5 Mega-pixel Bullet IR PoE IP Camera
ICA-E5550V	5 Mega-pixel Vandalproof IR PoE IP Camera
ICA-E8550	5 Mega-pixel Outdoor IR PoE Fisheye IP Camera
POE-162S	IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Ethernet Extender
WNAP-C3220A	802.11n Wireless Ceiling-mount PoE Access Point
WNAP-W2201A	802.11n 300Mbps In-Wall Access Point w/USB Charger (EU Type)
WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
WDAP-W7200AC	1200Mbps 802.11ac Dual Band Wall-mount Wireless Access Point
VIP-5060PT	Professional HD PoE IP Phone (6-Line)
VIP-1000PT	High Definition PoE IP Phone
VIP-1120PT	High Definition Color PoE IP Phone
VIP-2140PT	High Definition Color PoE IP Phone with Dual Display
VIP-6040PT	Gigabit Color LCD HD PoE IP Phone (4-Line)