

8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch (120 watts)



Flexible, Extendable and Centralized Power Distribution

PLANET GSD-1008HP provides eight 10/100/1000T ports featuring 30-watt 802.3at PoE+, a total 120-watt PoE budget and extra two uplink ports to fulfill the demand of sufficient PoE power for HD IP surveillance and Wi-Fi system in a small-scale but high-performance network. With the same desktop-sized and compact metal housing, it makes the placement of the unit convenient and provides a quick and easy PoE PDs deployment with power feeding.



Ethernet Data Transmit Distance Extension

The built-in solid DIP switch provides “Standard”, “VLAN” and “Extend” operation modes. The GSD-1008HP operates as a normal IEEE 802.3at PoE+ switch in the “Standard” operation mode.

The “VLAN” operation mode features with port-based VLAN function that helps to prevent the IP camera’s multicast or broadcast storm from influencing each other.

In the “Extend” operation mode, the GSD-1008HP operates on a per-port basis at 10Mbps duplex operation but supports 30-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable. With this brand-new feature, the GSD-1008HP provides an additional solution for 802.3at PoE+ distance extension, thus saving the cost of Ethernet cable installation. Furthermore, its VLAN isolation function isolates each port so as to prevent broadcast storm and defend DHCP spoofing in the “Extend” operation mode.

Physical Port

- 10-port 10/100/1000BASE-T Gigabit Ethernet RJ45 copper
- 8-port IEEE 802.3at PoE+ Injector (Port-1 to Port-8)

Power over Ethernet

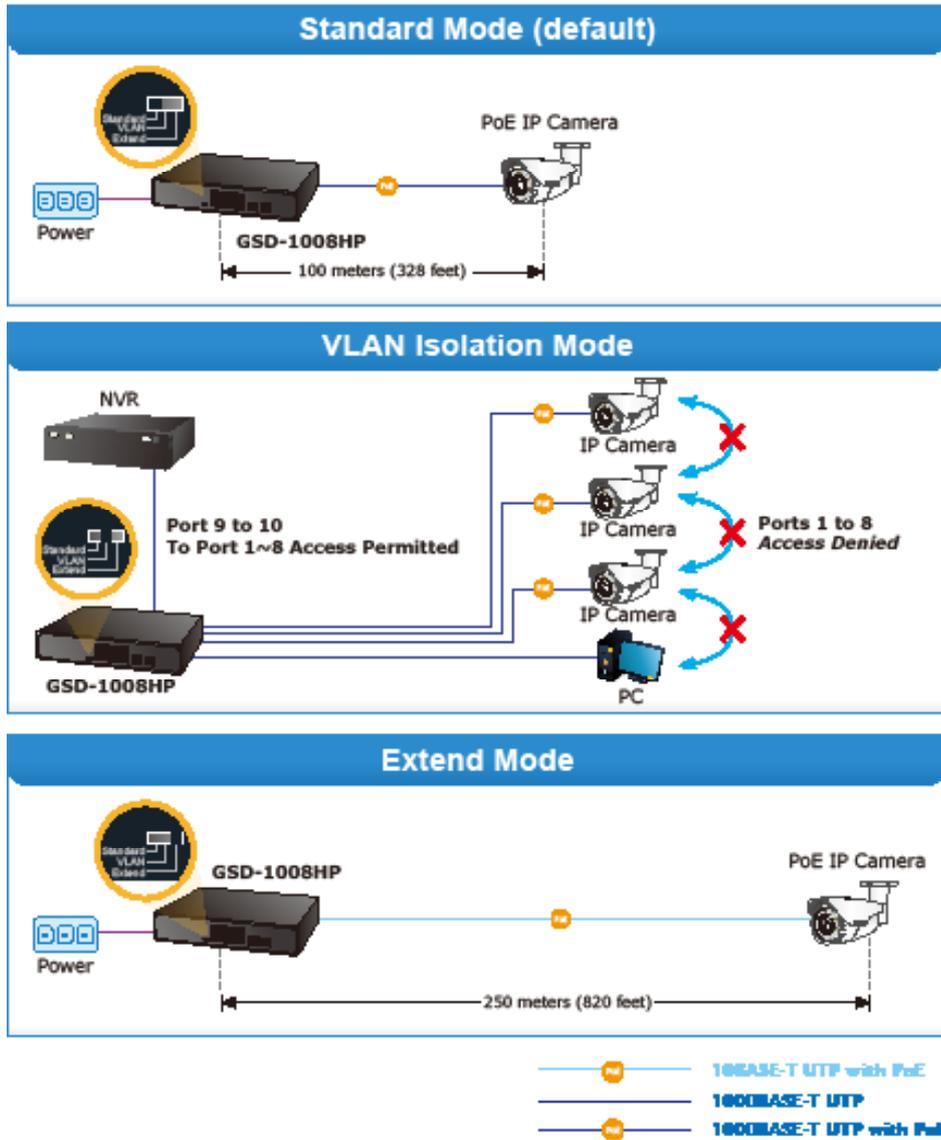
- Complies with IEEE 802.3at Power+ over Ethernet end-span PSE
- Up to 8 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 30.8 watts for each PoE port
- Each port supports 55V DC power to PoE powered device
- 120-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in standard mode with 250m in extended mode

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
- IEEE 802.1Q VLAN transparency
- Hardware DIP switch for **Standard**, **VLAN** and **Extend** mode selection; the Extend mode features 30-watt PoE transmit distance of 250m at speed of 10Mbps and VLAN isolation (Only for Port-1 to Port-8)
- Solid DIP switch to isolate ports to prevent broadcast storm and defend DHCP spoofing

Hardware

- 9-inch desktop size, 1U height, rack mountable
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)



Two Gigabit Uplink Ports

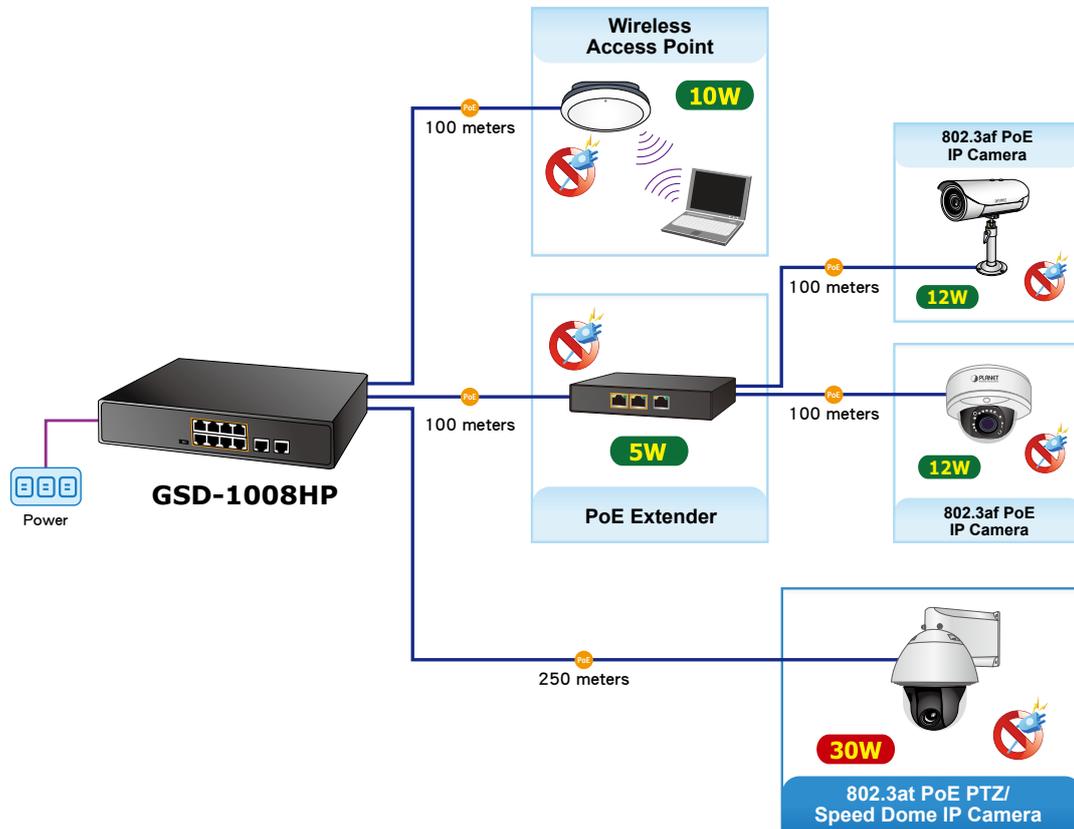
The GSD-1008HP comes with two uplink ports with 1000Mbps transfer rate to ensure high-speed data and video transmission, reliable assurance for connection between the surveillance system and outside network where the eight PoE+ ports can be used to their full potential.

Stable and High Performance Switch Architecture

The GSD-1008HP has an 8K MAC address table, featuring high performance switch architecture capable of providing the non-blocking 20Gbps switch fabric and wire-speed throughput as high as 14.88Mpps, 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-1008HP 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

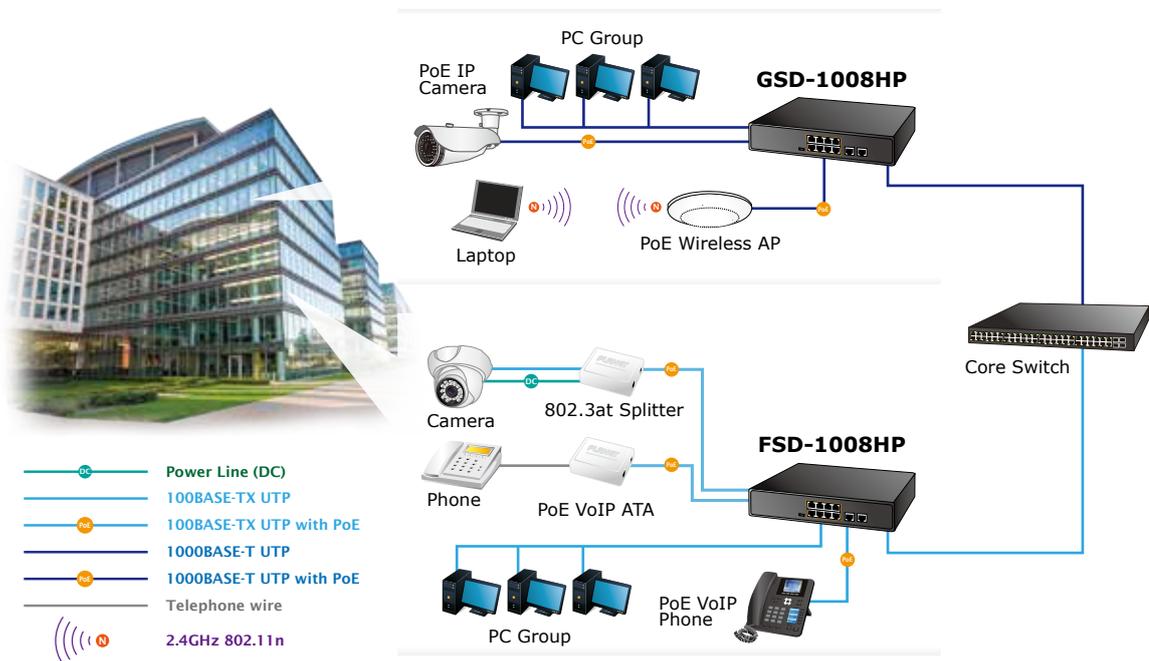
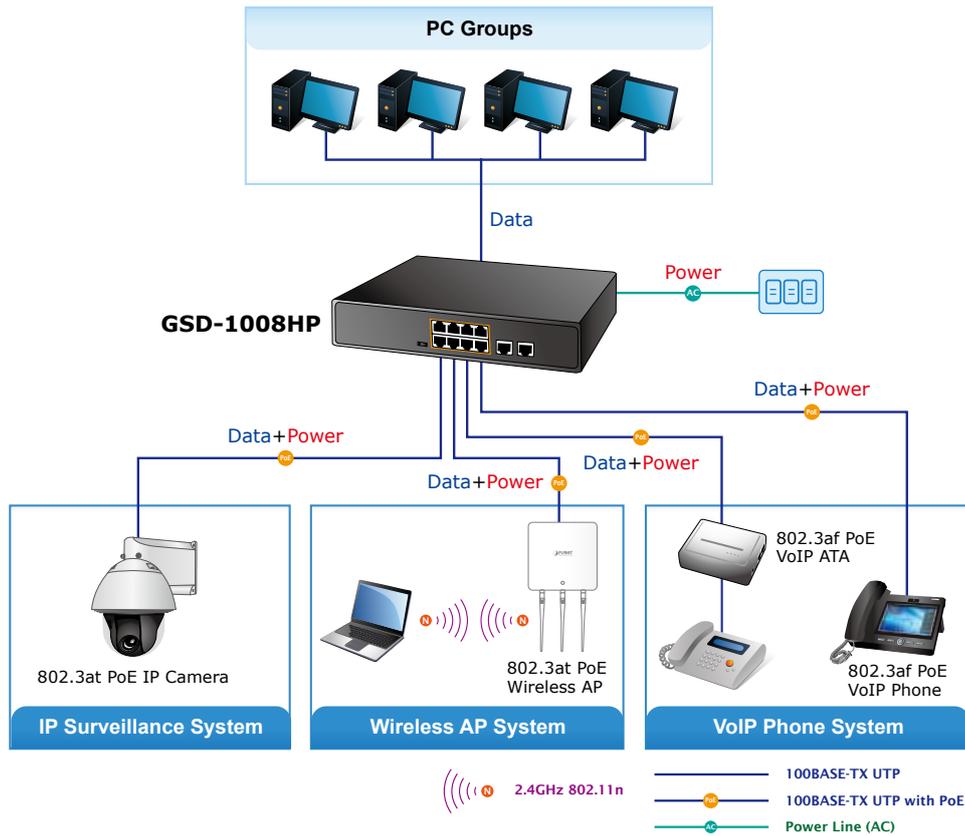
With data switching and power over Ethernet integrated into one unit, the GSD-1008HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. With 8 PoE interfaces, the GSD-1008HP 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

Different Networks Managed by One Control Center

Providing eight 802.3at PoE+ in-line power interfaces, the GSD-1008HP can easily build a power source that centrally controls the enterprises' IP phone systems, IP camera systems and wireless AP systems. For instance, up to 8 cameras can be installed at the corners in the company for surveillance demands or up to 8 wireless APs can be built to have a wireless roaming environment in the office. Without the power-socket limitation, the GSD-1008HP makes the installation of cameras or wireless APs easier and more efficient.



Specifications

Model	GSD-1008HP
Hardware Specifications	
Copper Port	10 10/100/1000BASE-T MDI/MDIX Ports
PoE Injector Port	8-port with 802.3at/af PoE injector function with Port-1 to Port-8
Switch Architecture	Store-and-Forward
Switch Fabric	20Gbps/non-blocking
Switch Throughput@64 bytes	14.88Mpps@64 bytes
MAC Address Table	8K entries, automatic source address learning and aging
Maximum Frame Size	9K bytes
Flow Control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
LED	System: <ul style="list-style-type: none"> ■ Power (Green) 10/100BASE-TX RJ45 interfaces: <ul style="list-style-type: none"> ■ 10/100Mbps LNK/ACT (Red) ■ 1000Mbps LNK/ACT (Green) PoE interfaces: <ul style="list-style-type: none"> ■ PoE-in-Use (Orange)
DIP Switch	Selectable operation mode <ul style="list-style-type: none"> ■ Standard ■ VLAN ■ Extend
Dimensions (W x D x H)	220 x 150 x 43 mm (1U height)
Enclosure	Metal
Weight	1260 g
Power Requirements	AC 100~240V, 50/60Hz, 2.5A max.
Power Consumption/ Dissipation	System On: Max. 5.6 watts/19.1 BTU Ethernet Full Loading: Max. 10.6 watts/36.1 BTU PoE Full Loading: Max. 139 watts/474.2 BTU
ESD Protection	Contact discharge of 4KV DC Air discharge of 6KV DC
Thermal Fan	1
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port 55V DC, 540mA. max. 30 watts
Power Pin Assignment	1/2 (+), 3/6 (-)
PoE Power Budget	120 watts
Max. Number of Class 2 PDs	8
Max. Number of Class 3 PDs	8
Max. Number of Class 4 PDs	4
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3x Flow control and back pressure IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE)
Environment	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

GSD-1008HP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch (120 watts)
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Related PoE Products

FSD-1008HP	8-Port 10/100TX 802.3at PoE + 2-Port 10/100TX Desktop Switch (120 watts)
FGSD-1011HP	8-Port 10/100TX 802.3at PoE + 1-Port 10/100/1000T + 1-Port 100/1000X SFP Desktop Switch (120 watts)
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera with Extended Support
ICA-M3380P	H.265 3 Mega-pixel Bullet IR IP Camera with Remote Focus and Zoom
ICA-M4320P	H.265 3 Mega-pixel IR IP Camera with Remote Focus and Zoom
ICA-M5380P	H.265 3 Mega-pixel Vandalproof IR IP Camera with Remote Focus and Zoom
ICF-1800	HD Touch Screen Android Multimedia Conference Phone
WDAP-1750AC	1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point
WDAP-C1750	1750Mbps 802.11ac Dual Band Ceiling-mount Enterprise Wireless Access Point
WDAP-C7200AC	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point