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

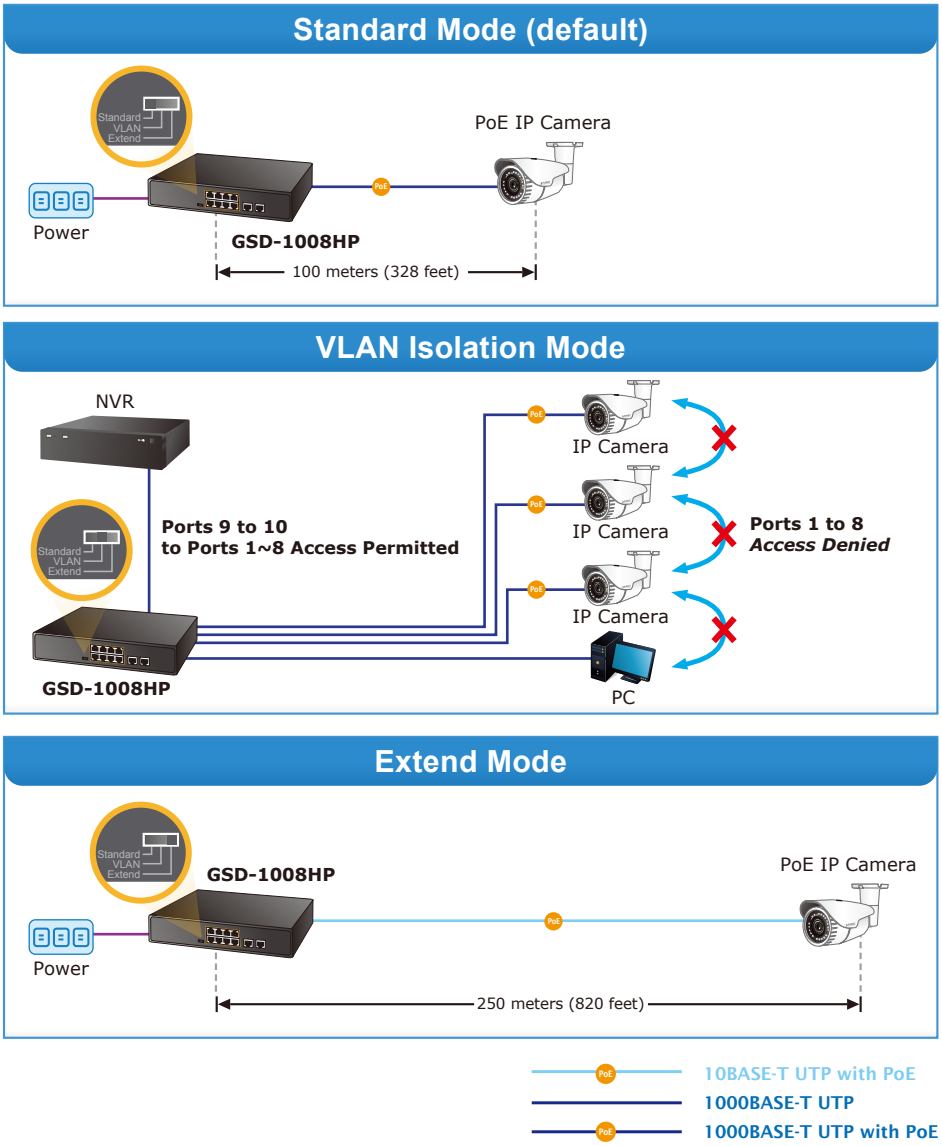
- Complies with IEEE 802.3at Power+ over Ethernet end-span PSE
- Up to 8 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 30.8 watts for each PoE port
- Each port supports 55V DC power to PoE powered device
- 120-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection 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

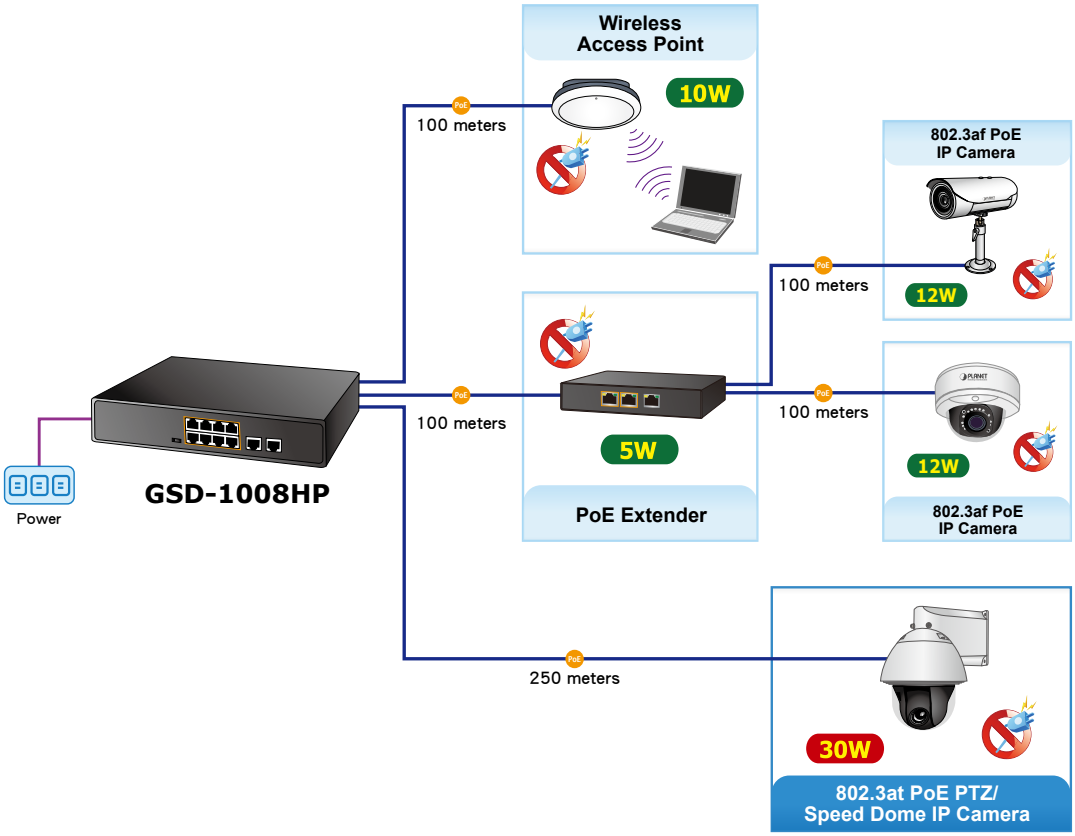
The GSD-1008HP comes with two uplink ports with 1000Mbps transfer rate to ensure high-speed data and video transmission, reliable assurance for connection between the surveillance system and outside network where the eight PoE+ ports can be used to their full potential.

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

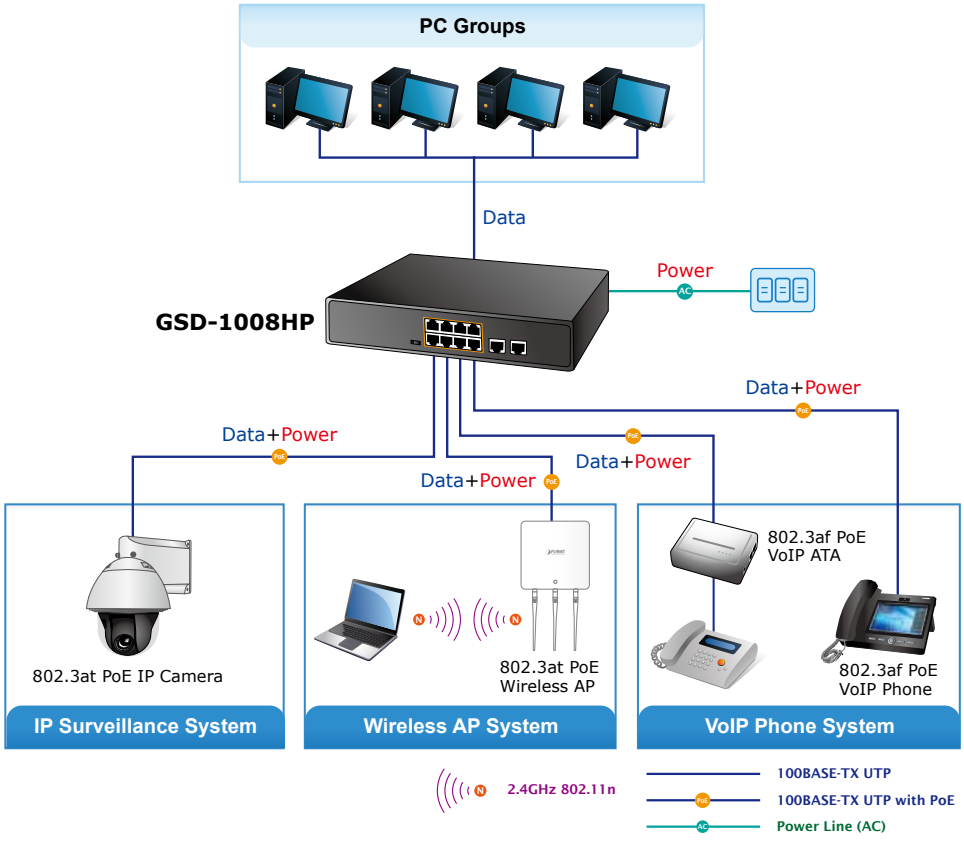
With data switching and power over Ethernet integrated into one unit, the GSD-1008HP reduces cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify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

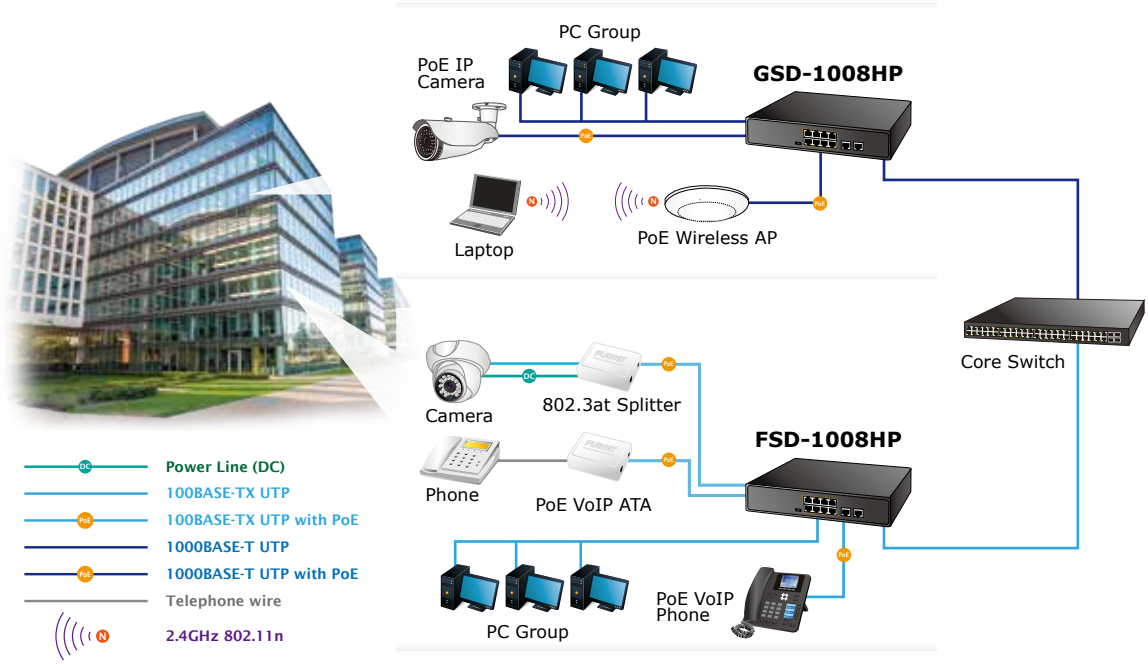


Applications

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 atthe 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:** ■ Power (Green) **10/100BASE-TX RJ45 interfaces:** ■ 10/100Mbps LNK/ACT (Red) ■ 1000Mbps LNK/ACT (Green) **PoE interfaces:** ■ PoE-in-Use (Orange)
DIP Switch	Selectable operation mode ■ 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)

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

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