






1. Package Contents

Thank you for purchasing PLANET GSD-908HP 8-Port 10/100/1000T 802.3at PoE+ + 1-Port 10/100/1000T Desktop Switch. "802.3at PoE+ Switch" mentioned in this Guide refers to the GSD-908HP.

Open the box of the 802.3at PoE+ Switch and carefully unpack it. The box should contain the following items:

The 802.3at PoE+ Switch x 1	User's Manual x 1	Rubber Feet x 4
		
AC to DC Power Adapter x 1	Power Cord x 1	
		

- 1 -

If any of these pieces are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

2. Product Features

> Physical Port

- 9-port 10/100/1000BASE-T Gigabit RJ45 copper

> Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus
- Complies with IEEE 802.3af Power over Ethernet
- 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
- 100-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

- 2 -

> 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 4K absolute MAC addresses
- 9K jumbo frame supports all speeds (10/100/1000Mbps)
- IEEE 802.1Q VLAN transparency
- Automatic address learning and address aging
- Solid DIP switch to isolate ports to prevent broadcast storm and defend DHCP spoofing

> Hardware

- Made of metal, desktop size and wall-mount design
- LED indicators for system power, per port PoE-in-Use (Port 1 to port 8), per port Link/Act (10/100/1000Mbps, port 1 to port 9).
- 55V DC, 2.3A external power adapter
- FCC, CE Class A compliant

- 3 -

3. Product Specifications

Model	GSD-908HP
Hardware Specifications	
10/100/1000BASE-T Copper Ports	9 auto-MDI/MDI-X ports
802.3af/802.3at PoE+ Injector Port	8
Switch Architecture	Store-and-Forward
Switch Fabric	18Gbps/non-blocking
Switch Throughput@64bytes	13.3Mpps
MAC Address Table	4K entries
Jumbo Frame	9216 bytes
Flow Control	IEEE 802.3x pause frame for full duplex; back pressure for half duplex
LED	<ul style="list-style-type: none"> ■ System: Power (Amber) ■ 10/100/1000T RJ45 Interfaces PoE-in-Use (Amber) ■ 10/100/1000 LNK/ACT (Green)
DIP Switch	<ul style="list-style-type: none"> ■ Default mode for switch architecture ■ VLAN mode for Port-based VLAN
Dimensions (W x D x H)	168 x 94 x 32 mm
Enclosure	Metal

- 4 -

Weight	419g
Power Requirements	55V DC, 2A
Power Consumption/Dissipation	Max. 100 watts / 341BTU
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: 1/2 (+), 3/6 (-)
PoE Power Output	<ul style="list-style-type: none"> ■ Per port 55V DC, 300mA. max. 15.4 watts (IEEE 802.3af) ■ Per port 55V DC, 600mA. max. 30 watts (IEEE 802.3at)
PoE Power Budget	100 watts
Number of PDs, 7 watts	8
Number of PDs, 15.4 watts	6
Number of PDs, 30 watts	3

- 5 -

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
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)

- 6 -

4. Hardware Introduction

4.1 Front Panel

The Front Panel of the 802.3at PoE+ Switch consists of 9 auto-sensing 10/100/1000Mbps Ethernet RJ45 ports. The LED indicators are also located on the front panel of the 802.3at PoE+ Switch.

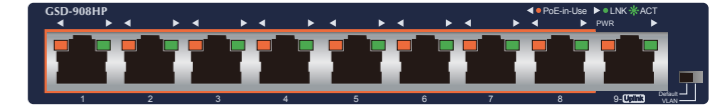



Figure 4-1: GSD-908HP Switch Front Panel

The front panel of 802.3at PoE+ Switch provides one DIP switch for "Default" or "VLAN" mode selection. The detailed descriptions are shown in the following table.

DIP Switch Mode	Function
Default	This mode makes the 802.3at PoE+ Switch operate as a general switch and all ports operate at 10/100/1000Mbps auto-negotiation.
VLAN	This mode makes the 802.3at PoE+ Switch operate as a VLAN isolation switch and port 1 to port 8 will isolate respectively. Port 1 to port 8 can only communicate with port 9 (uplink port).

- 7 -

	After changing the mode, you need to manually restart the 802.3at PoE+ Switch to make the corresponding configuration take effect.
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4.2 LED Indicators

■ System

LED	Color	Function
PWR	Amber	Lights to indicate the Switch has power.

■ Per 10/100/1000BASE-T Port

LED	Color	Function
PoE in Use	Amber	Lights to indicate the port is providing 55V DC in-line power.
10/100/1000 LNK/ACT	Green	Lights to indicate the link through that port is successfully established at 10/100/1000Mbps. Blinks to indicate that the Switch is actively sending or receiving data over that port.

- 8 -

4.3 Rear Panel

The rear panel of the 802.3at PoE+ Switch comes with a DC power socket that accepts 55V DC input power and a grounding terminal that protects the 802.3at PoE+ Switch against lightning strikes.



Figure 4-2: GSD-908HP Switch Rear Panel

■ DC Power Receptacle

Power Notice

1. The device is a power-required device, which means it will not work till it is powered. If your networks should be active all the time, please consider using UPS (Uninterrupted Power Supply) for your device. It will prevent you from network data loss or network downtime.
2. In some areas, installing a surge suppression device may also help to protect your 802.3at PoE+ Switch from being damaged by unregulated surge or current to the 802.3at PoE+ Switch or the power adapter.

Step 4: Connect your 802.3at PoE+ Switch to 802.3af/802.3at complied powered devices (PD) and other network devices.

- A. Connect one end of a standard network cable to the 10/100/1000 RJ45 ports on the front panel of the 802.3at PoE+ Switch.
- B. Connect the other end of the cable to the network devices such as printer servers, workstations, router, etc.

Note

Connection to the 802.3at PoE+ Switch requires UTP Category 6/5e/5 network cabling with RJ45 tips.

Step 5: Supply power to the 802.3at PoE+ Switch.

- A. Connect one end of the power cable to the DC power adapter and connect its DC plug connector to the 802.3at PoE+ Switch.
- B. Connect the power plug of the power cable to a standard wall outlet.

When the 802.3at PoE+ Switch receives power, the Power LED should remain solid amber.

5. Hardware Installation

5.1 Desktop Installation

To install the 802.3at PoE+ Switch on desktop, simply follow the steps below:

Step 1: Attach the rubber feet to the recessed areas on the bottom of the PoE+ Ethernet Switch, as shown in Figure 5-1.

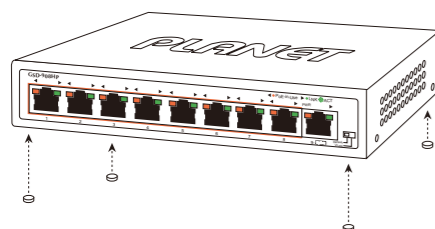


Figure 5-1: Placing the PoE+ Ethernet Switch on the Desktop

Step 2: Place the 802.3at PoE+ Switch on desktop near an AC power source.

Step 3: Keep enough ventilation space between the 802.3at PoE+ Switch and the surrounding objects.

Note

When choosing a location, please keep in mind the environmental restrictions discussed in Section 3 under Specifications.

Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:
<https://www.planet.com.tw/en/support/faq>

Switch support team mail address:
support@planet.com.tw

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

GSD-908HP

PLANET Technology Corp.

10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

2351-AK3180-002

Warning:
 This equipment is compliant with Class A of CISPR 32.
 In a residential environment this equipment may cause radio interference.



Energy Saving Note of the Device
 This power required device does not support Standby mode operation. For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit. Without removing the DC-plug from or switching off the device, the device will still consume power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to power off or to remove the DC-plug from the device if this device is not intended to be active.



EC Declaration of Conformity

For the following equipment:

*Type of Product: 8-Port 10/100/1000Mbps 802.3at PoE + 1-Port 1000Mbps Desktop Switch

*Model Number: GSD-908HP

* Produced by:

Manufacturer's Name : Planet Technology Corp.
 Manufacturer's Address: 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive on 2014/30/EU and Low Voltage Directive 2014/35/EU.

For the evaluation regarding the EMC, the following standards were applied:

EN 55032	(2012 + AC:2013)
EN 61000-3-2	(2014)
EN 61000-3-3	(2013)
EN 55024	(2010)
EN60950-1	(2006+A11:2009+A1:2010+A12:2011+A2:2013)

Responsible for marking this declaration if the:

Manufacturer Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Name: Planet Technology Corp.
 Company Address: 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan R.O.C.

Person responsible for making this declaration

Name, Surname: Kent Kang
 Position / Title: Director

Taiwan
 Place

March 25, 2017
 Date

Kent Kang
 Legal Signature

PLANET TECHNOLOGY CORPORATION

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