1. Package Contents

Check the following contents of your package:

GSD-604HP 	User's Manual 	Rubber Feet x 4 
54V Power Adapter 	Power Cord 	

If any of these 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

■ RJ45 Interface

- 6 10/100/1000BASE-T RJ45 ports with 4-port IEEE 802.3af/at injector function

■ Power over Ethernet

- Complies with IEEE 802.3af/at Power over Ethernet end-span PSE
- Up to 4 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 30 watts for each PoE port
- Each port supports 54V DC power to PoE powered device
- 65-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in standard mode and 250m in extend 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
- Integrates address look-up engine, supporting 4K absolute MAC addresses
- Automatic address learning and address aging
- Supports port-based VLAN

■ Hardware

- LED indicators for PoE ready/activity and LINK/ACT
- One 54V DC power jack
- Fanless design

3. Switch Front Panel

Figure 3-1 shows the front panel of the PoE Switch

Figure 3-1: Front Panel

4 LED Indicators

➢ **System**

LED	Color	Function
PWR	Orange	**Lights:** Indicates the Switch has power. The LED is shown on Port 6

➢ **Per 10/100/1000Mbps Port**

LED	Color	Function
LNK	Green	**Lights:** Indicates the link through that port is successfully established at 10/10/1000Mbps.
		Blinks: Indicates that the Switch is actively sending or receiving data over that port.

➢ **PoE-in-Use Port**

LED	Color	Function
PoE	Orange	**Lights:** Indicates the port is providing 54V DC in-line power.

5. Switch Rear Panel

Figure 5-1 shows the rear panel of the PoE Switch.

Figure 5-1: Rear Panel

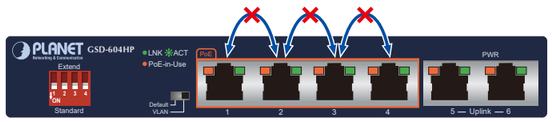
Power Note

1. The device is a power-required device, meaning 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 GSD-604HP from being damaged by unregulated surge or current to the GSD-604HP or the power adapter..

6. DIP Switch

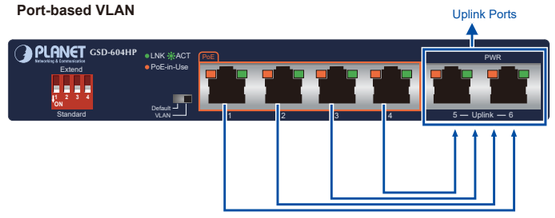
6.1 Port-based VLAN Feature

The GSD-604HP has one feature called Port-based VLAN. When switching the DIP to the "Enable" position, port 1 to port 4 wouldn't able to communicate with each other.



Port 1 to Port 4 can only communicate with Uplink Port 5 & Port 6.

Port-based VLAN



6.2. Extended Feature

Standard	This mode makes the PoE Switch operate as a general switch and all PoE ports operate at 10/100/1000Mbps in auto-negotiation.
Extend	This mode with the data rate of 10Mbps makes the PoE Switch's Ports 1 to 4 support a long-distance data transmission of up to 250 meters.

7. Installing the Switch

This part describes how to install your PoE Switch and make connections to it. Please follow the procedures:

Desktop Installation

To install the PoE Switch on desktop, simply follow the following steps:

Step 1: Attach the rubber feet to the recessed areas on the bottom of the PoE Switch.

Step 2: Place the PoE Switch on desktop near AC power source for its power adapter.

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

Note

When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 8 -- Product Specifications.

Step 4: Connect your PoE Switch to network devices.

A. Connect one end of a standard network cable to port-5 and port-6 10/100/1000Mbps RJ45 ports on the front of the PoE Switch Switch.

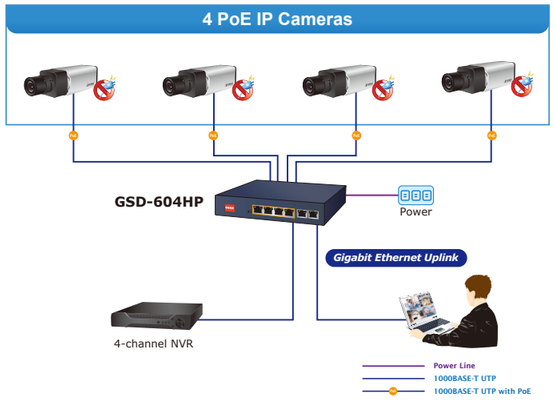
B. Connect the other end of the cable to the network devices such as NVR (Network Video Recorder), workstations or routers.

Step 5: Connect your PoE Switch to PoE PD devices.

A. Connect one end of a standard network cable to port 1 to port 4 10/100/1000Mbps RJ45 ports on the front of the PoE Switch.

B. Connect the other end of the cable to the 802.3at/af powered devices.

Perfect Combination of 4-Port PoE Switch + 4-ch NVR



Note

Cable Distance for Switch
The cable distance between the GSD-604HP and PC/PD devices should not exceed 100 meters for UTP/STP cable.

Note

Make sure the wiring is correct
Category 3/4/5 cable can be used for 10/100Mbps operation. To reliably operate your network at 1000Mbps, you must use an unshielded twisted-pair (UTP) Category 5/5e cable, or better data grade cabling. While a Category 3 or 4 cable may initially seem to work, it will soon cause data loss.

Step 6: Supply power to the PoE Switch.

A. Connect one end of the power cable to the Switch.

B. Connect the power plug of the power cable to a standard wall outlet.

When the PoE Switch receives power, the power LED should remain solid orange.

8. Product Specifications

Model	GSD-604HP 4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch
Hardware Specifications	
Network Connector	6 10/100/1000BASE-T RJ45 auto MDI/MDIX ports
PoE Inject Port	4 ports with 802.3at/af PoE injector function (Ports1 to 4)
LED Display	**System**: Power (Orange) **Per PoE port:** PoE (Orange, port 1 to port 4) **Ethernet port:** LNK (Green)
Thermal Fan	Fanless design
Switch Architecture	Store and Forward
MAC Address Table	4K MAC address table with auto learning function
Switch Fabric	12Gbps
Switch Throughput	8.92Mpps @64 bytes
Jumbo Packet	9K bytes
Flow Control	Back pressure for half duplex. IEEE 802.3x pause frame for full duplex
Power Requirements	54 DC, 1.3A
ESD Protection	6KV DC

Power Consumption	Max. 66.69 watts, 227.5 BTU
Dimensions (W x D x H)	168 x 93 x 32mm
Weight	374g
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
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Per Port 54V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 54V DC, 600mA. max. 30 watts (IEEE 802.3at)
PoE Power Budget	65 watts
Standard Conformance	
EMI Safety	FCC Part 15 Class A, CE
Standard 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 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

9. Customer Support

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

PLANET online FAQs:
http://www.planet.com.tw/en/support/faq.php?type=1

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

PLANET Networking & Communication

PLANET Networking & Communication

User's Manual

www.PLANET.com.tw

4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch

GSD-604HP

PLANET Technology Corp.
10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan
2351-AK3220-002

Warning:
This device is compliant with Class A of CISPR 32.
In a residential environment this device 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 power cable to disconnect the device from the power circuit.Without removing power cable, the device will still consumepower from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it isstrongly suggested to remove the power connection for the device if this device is not intended to be active.