1. Package Contents

Check the following contents of your package:

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.

GSD-604HP	User's Manual	55V Power Adapter
Power Cord	Rubber Feet	Wall-mount Kit
	x 4	

- 1 -

2. Product Features

■ RJ45 Interface
- ☐ 6 10/100/1000Mbps Gigabit Ethernet ports
- ☐ 4 ports support 54V DC power to PoE powered device

■ Power over Ethernet
- ☐ Complies with IEEE 802.3af/at Power over Ethernet end-span PSE
- ☐ Up to 4 IEEE 802.3af/802.3at devices powered
- ☐ Supports PoE power up to 30 watts for each PoE port
- ☐ 55-watt PoE Budget
- ☐ Auto detects powered device (PD)
- ☐ Circuit protection prevents power interference between ports
- ☐ Remote power feeding up to 100m

■ Hardware
- ☐ LED indicators for PoE ready/activity and LINK/ACT
- ☐ One 55V DC power jack

- 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
- ☐ 9216 bytes jumbo packet size support
- ☐ Integrates address look-up engine, supporting 8K absolute MAC addresses
- ☐ Automatic address learning and address aging
- ☐ Supports port-based VLAN and loop protection

3. Switch Front Panel

Figure 3-1 shows the front panel of GSD-604HP.

Figure 3-1: GSD-604HP Front Panel

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4. LED Indicators

System

LED	Color	Function
PWR	Green	**Lights:** Indicates the Switch has power.

Per 10/100/1000Mbps Port

LED	Color	Function
1000 LNK	Green	**Lights:** Indicates the link through that port is successfully established at 1000Mbps. **Blinks:** Indicates that the Switch is actively sending or receiving data over that port.
10/100 LNK	Orange	**Lights:** Indicates the link through that port is successfully established at 10/100Mbps. **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.
MAX	Orange	**Lights:** 80% of PoE usage **Blinks:** 100% of PoE usage

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5. Switch Rear Panel

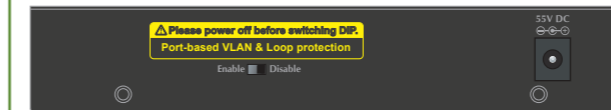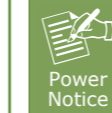Figure 5-1 shows the rear panel of GSD-604HP.
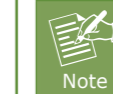

Figure 5-1: GSD-604HP Rear Panel

Power Notice

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

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6. Port-based VLAN and Loop Protection Feature

The GSD-604HP has one feature called Port-based VLAN and Loop Protection. When switching the DIP to the "Enable" position, port 1 to port 5 wouldn't able to communicate with each other.

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

When there is a loop happening from the client, the GSD-604HP will block that port and wouldn't allow data to transfer to the switch.

Loop (broadcast)

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7. Installing the Switch

This part describes how to install your Gigabit PoE+ Switch and make connections to it. Please read the following topics and follow the procedures as presented.
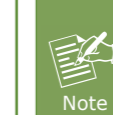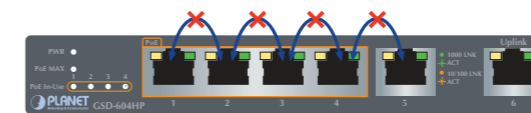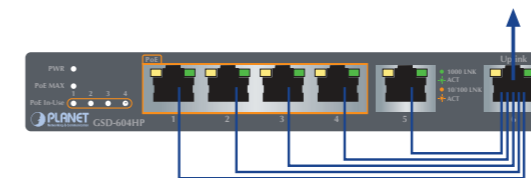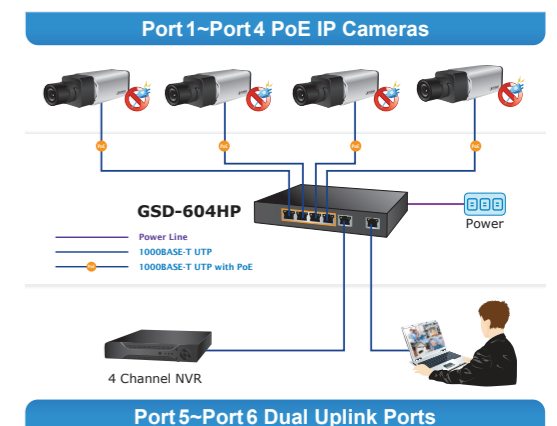
> **Note** This Gigabit PoE+ Switch does not need software configuration.

Desktop Installation

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

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

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

Step 3: Keep enough ventilation space between the Gigabit 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 Gigabit PoE+ Switch to network devices.

- 7 -

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 Gigabit PoE+ 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 Gigabit 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 Gigabit PoE+ Switch.

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

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Step 6: Supply power to the Gigabit 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 Gigabit PoE+ Switch receives power, the Power LED should remain solid Green.

Wall-mount Installation

Step 1: Please find the wall that can mount the GSD-604HP.

Step 2: Install four screws on the wall.

Step 3: Hang the GSD-604HP on the screws from the wall.

Step 4: Repeat step 6 of **Desktop Installation** for power supply to the GSD-604HP.

Note	Before mounting the device to the wall, please check the location of the electrical outlet and the length of the Ethernet cable.

RJ45
UTP Cable

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-Port RJ45 for 10/100/1000BASE-T, auto MDI/MDIX
PoE Inject Port	4-Port with 802.3af/at PoE injector function (port 1 to port 4)
LED Display	**System:** Power (Green) **Per PoE port:** PoE (Orange, port 1 to port 4) PoE MAX (Orange) **Ethernet port:** 1000 LNK (Green) 10/100 LNK (Orange)
Switch Architecture	Store and Forward switch architecture
Thermal Fan	Fanless design
MAC Address Table	8K MAC address table with auto learning function
Switch Fabric	12Gbps

Switch Throughput	8.92Mpps @64 bytes
Jumbo Packet	9216 bytes
Flow Control	Back pressure for half-duplex. IEEE 802.3x pause frame for full-duplex
Power Requirements	55V DC, 1.1A
ESD Protection	6KV DC
Power Consumption	Max. 60 watts, 204.6 BTU
Dimensions (W x D x H)	160 x 92.5 x 28mm
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	55 watts

User's Manual

www.PLANET.com.tw

PoE Switch
GSD-604HP

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

EAC CE ♻

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 consume power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to remove the power connection for the device if this device is not intended to be active.
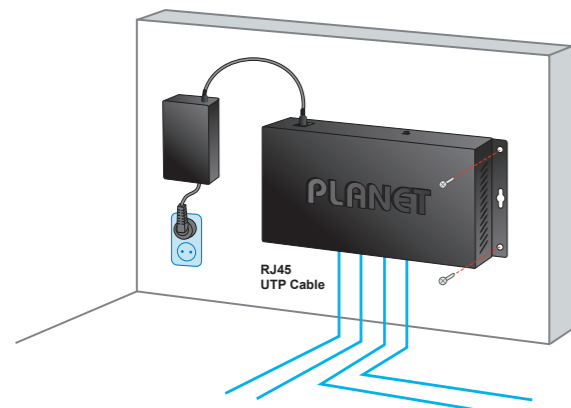
| PoE | 30W Per Port | 10M/100M 1000M | Metal Made | Fanless | Port VLAN |

Standard Conformance	

EMI Safety	FCC Class B, 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

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

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