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User's Manual

Gigabit Switch

GSW-1601/GSW-2401

16/24-Port Gigabit Ethernet Switch



Auto
Negotiation

10M/100M
1000M

Jumbo
FRAME

Auto
MDI/MDI-X

Plug & Play

Metal Shape

1. Package Content

Thank you for purchasing 16/24-Port 10/100/1000Mbps unmanaged Gigabit Ethernet Switch, GSW-1601 / GSW-2401. Terms of **"Switch"** in following section of this User's Manual means the GSW-1601 / GSW-2401.

Upon open the box of the Switch and carefully unpack it. The box should contain the following items:

- The Gigabit Ethernet Switch x 1
- User's Manual x 1
- Power Cord x 1
- Rubber Feet x 4
- Two Rack-Mounting Brackets with Attachment Screws x 1

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 against to repack the product in case there is a need to return it to us for repair.

2. Product Features

- Comply with IEEE 802.3, 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T Ethernet standard
- 16 / 24-Port 10/100/1000Mbps Gigabit Ethernet ports
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half / full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation
- IEEE 802.3x flow control for full duplex operation and Backpressure for half duplex operation
- Integrated address look-up engine, support 8K absolute MAC addresses
- 9K Jumbo packet support
- IEEE 802.1Q VLAN packet transparent support
- Automatic address learning and address aging
- Supports Auto MDI/MDI-X function
- Support CSMA/CD protocol
- 100~240V AC, 0.6A, 50~60Hz universal Power input
- FCC, CE class A compliant

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3. Product Specification

Product	GSW-1601	GSW-2401
Hardware Specification		
Hardware Version	5	
10/100/1000Base-T MDI/MDIX Ports	16	24
Throughput (packet per second)	23.8Mpps	35.7Mpps
Switch Fabric	32Gbps	48Gbps
Weight	1.9kg	2kg
Power Consumption / Dissipation	13 Watts / 44 BTU	18 Watts / 61 BTU
Power Requirement	100~240V AC, 0.6A, 50-60Hz	
Dimensions (W x D x H)	440 x 180 x 44mm, 1U height	
Switch Processing Scheme	Store-and-Forward	
Address Table	8K entries	
Jumbo Packet Size	9K	
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex	
Temperature	Operating: 0~50 Degree C Storage: -40~70 Degree C	

Humidity:	Operating: 5% to 95% (Non-condensing) Storage: 5% to 95% (Non-condensing)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3x (Full-Duplex Flow Control)

4. Switch Front Panel

Figure 1 & 2 shows a front panel of Gigabit Ethernet Switch.



Figure 1: GSW-1601 Front Panel



Figure 2: GSW-2401 Front Panel

LED Indicators

GSW-1601 / GSW-2401

System

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

Per 10/100/1000Mbps port

LED	Color	Function
LNK / ACT	Green	Lights to indicate the link through that port is established successfully. Blinks indicate that the Switch is actively sending or receiving data over that port.
1000	Green	Lights to indicate the port is run at 1000Mbps. Off: indicate that the port is operating at 10/100Mbps.

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5. Switch Rear Panel

Figure 3 shows a rear panel of Gigabit Ethernet Switch.

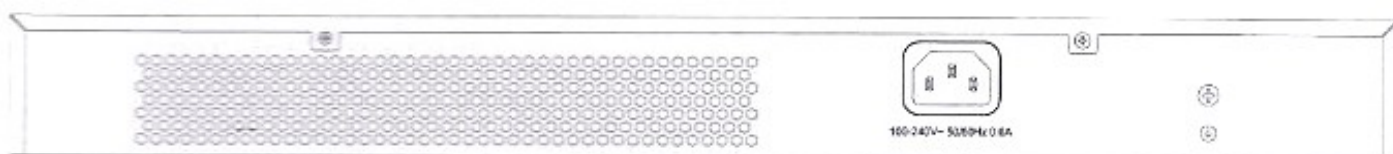


Figure 3: GSW-1601 / GSW-2401 Rear Panel



Power Notice

1. The device is a power-required device, it means, it will not work till it is powered. If your networks should 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 area, installing a surge suppression device may also help to protect your Gigabit Ethernet Switch from being damaged by unregulated surge or current to the Switch or the power adapter.

6. Installing the Switch

This part describes how to install your Gigabit Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.



Note

This Gigabit Ethernet Switch does not need software configuration.

Desktop Installation

To install the Gigabit Ethernet Switch on desktop, simply follow the next steps:

- Step 1:** Attach the rubber feet to the recessed areas on the bottom of the Gigabit Ethernet Switch.
- Step 2:** Place the Gigabit Ethernet Switch on desktop near an AC power source.
- Step 3:** Keep enough ventilation space between the Gigabit Ethernet Switch and the surrounding objects.



Note

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

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Step 4: Connect your Gigabit Ethernet Switch to network devices.

- A. Connect one end of a standard network cable to the 10/100/1000Base-T RJ-45 ports on the front of the Gigabit Ethernet Switch.
- B. Connect the other end of the cable to the network devices such as printer servers, workstations or routers...etc.

Step 5: Supply power to the Gigabit Ethernet Switch.

- A. Connect one end of the power cable to the Gigabit Ethernet Switch.
- B. Connect the power plug of the power cable to a standard wall outlet.

When the Gigabit Ethernet Switch receives power, the Power LED should remain solid Green.

Rack Mounting

To install the Gigabit Ethernet Switch in a 19-inch standard rack, follow the instructions described below.

Step 1: Place your Gigabit Ethernet Switch on a hard flat surface, with the front panel positioned towards your front side.

Step 2: Attach a rack-mount bracket to each side of the Switch with supplied screws attached to the package. Figure 4 shows how to attach brackets to one side of the Gigabit Ethernet Switch.

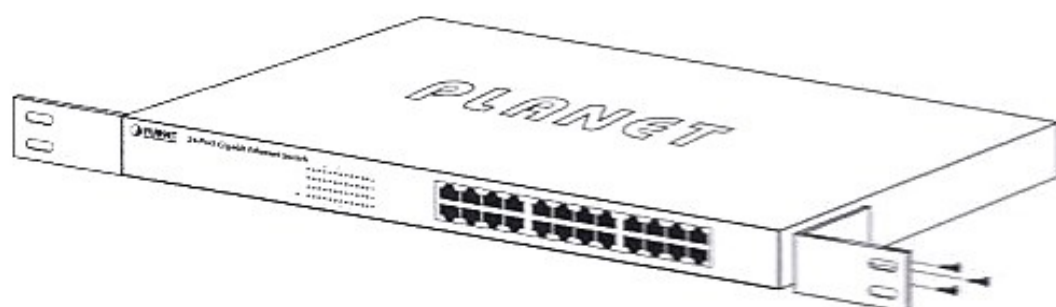


Figure 4: Attaching the brackets to the Gigabit Ethernet Switch



Caution

You must use the screws supplied with the mounting brackets. Damage caused to the parts by using incorrect screws would invalidate your warranty.

Step 3: Secure the brackets tightly.

Step 4: Follow the same steps to attach the second bracket to the opposite side.

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Step 5: After the brackets are attached to the Gigabit Ethernet Switch, use suitable screws to securely attach the brackets to the rack, as shown in Figure 5.

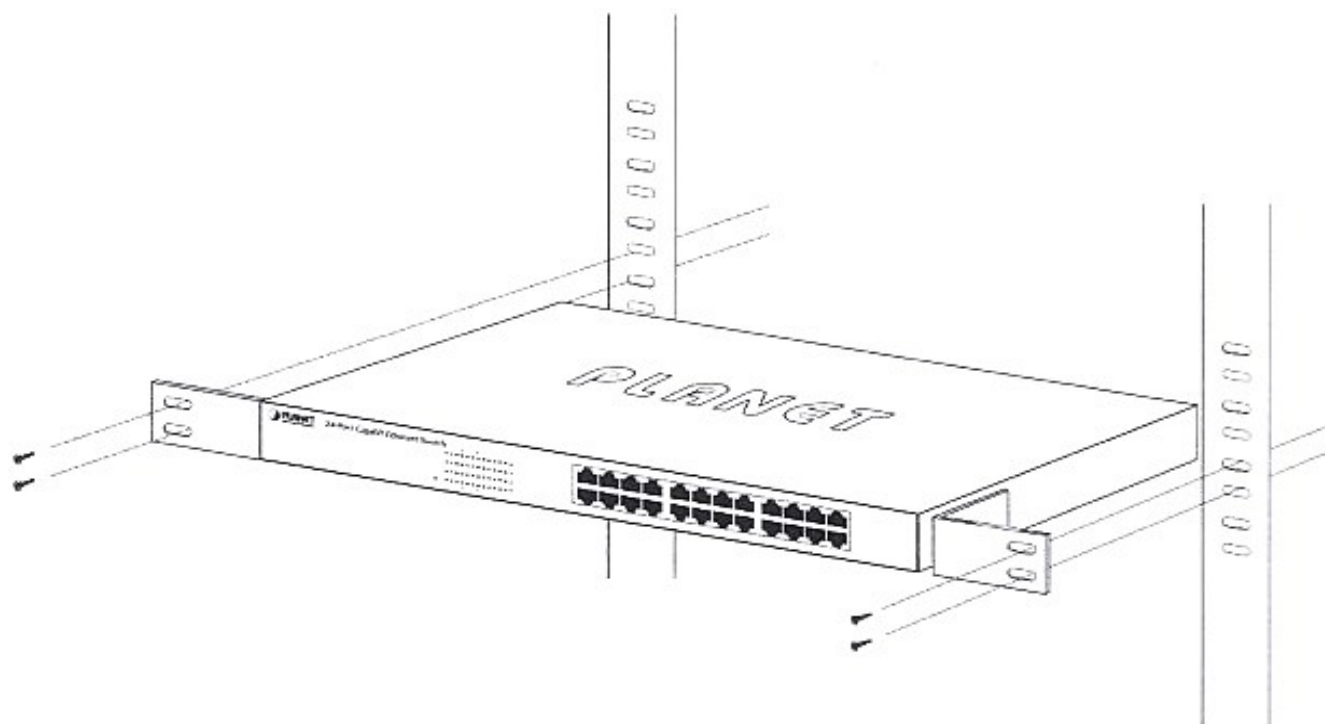


Figure 5: Mounting the Gigabit Ethernet Switch in a Rack

Step 6: Proceeds with the step 4 and step 5 of **Desktop Installation** to connect the network cabling and supply power to your Gigabit Ethernet Switch.

Customer Support

Thank you for purchase PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve you 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