

User's Manual

Unmanaged Switch

FNSW-1601 / FNSW-2401

16/24-Port 10/100Mbps Fast Ethernet Switch

**10M**
100M**Auto**
Negotiation**Auto**
MDI/MDI-X**Plug & Play**

Green
Networking

1. Package Content

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

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

- The Fast 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 8

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

Physical Port

- 16 / 24-Port 10/100Mbps Fast Ethernet ports
- Supports Auto MDI/MDI-X function

Layer 2 Features

- Comply with IEEE 802.3, 10Base-T, IEEE 802.3u 100Base-TX Ethernet standard
- Supports powerful Green Ethernet to power saving
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half / full duplex mode, flow control, auto-negotiation
- Comply IEEE 802.3x flow control for full duplex operation and Back pressure for half duplex operation
- Comply IEEE 802.1p Quality of Service
- Integrated address look-up engine, support 8K absolute MAC addresses
- Automatic address learning and address aging
- Support CSMA/CD protocol

Hardware Features

- 100~240V AC, 50~60Hz, 0.6A universal Power input
- FCC, CE class A compliant

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3. Product Specification

| Product | FNSW-1601 | FNSW-2401 |
|---------------------------------|--|--------------------------------|
| Hardware Specification | | |
| Hardware Version | V7 | V9 |
| 10/100Base-TX MDI/MDIX Ports | 16 | 24 |
| Throughput (packet per second) | 2.38Mpps | 3.57Mpps |
| Switch Fabric | 3.2Gbps | 4.8Gbps |
| Weight | 1.6kg | 1.7kg |
| Power Consumption / Dissipation | 2.9 Watts / 9.8 BTU | 4 Watts / 13 BTU |
| Power Requirement | 100~240V AC, 50/60Hz, 0.6A | |
| Dimensions (W x D x H) | 440 x 180 x 44mm, 1U height | |
| Switch Processing Scheme | Store-and-Forward | |
| Address Table | 8K entries | |
| Packet Buffer | 2Mbit SRAM | |
| Power Green Ethernet | 10m ~ 50m: Saving up to 22% | 10m ~ 50m: Saving up to 12% |
| Flow Control | Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex | |
| Temperature | Operating: 0~50 Degree C Storage: -10~70 Degree C | |
| Humidity Operating: | 5% to 90%, Storage: 5% to 90% (Non-condensing) | |
| Standards Conformance | | |
| Regulation Compliance | FCC Part 15 Class A, CE | |
| Standards Compliance | IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (Full-Duplex Flow Control) IEEE 802.1p (Quality of Service) | |

4. Switch Front Panel

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



Figure 1: FNSW-1601 Front Panel



Figure 2: FNSW-2401 Front Panel

LED Indicators

FNSW-1601 / FNSW-2401

System

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

Per 10/100Mbps 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. |
| 100Mbps | Green | Lights to indicate the port is run at 100Mbps. Off: indicate that the port is operating at 10Mbps. |

5. Switch Rear Panel

Figure 3 shows a rear panel of Fast Ethernet Switch.



Figure 3: FNSW-1601 / FNSW-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 Fast Ethernet Switch from being damaged by unregulated surge or current to the Switch or the power adapter.

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6. Installing the Switch

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



Note

This Fast Ethernet Switch does not need software configuration.

Desktop Installation

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

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

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

- A.** Connect one end of a standard network cable to the 10/100 RJ-45 ports on the front of the Fast 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 Fast Ethernet Switch.

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

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

Rack Mounting

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

Step 1: Place your Fast 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 Fast Ethernet Switch.

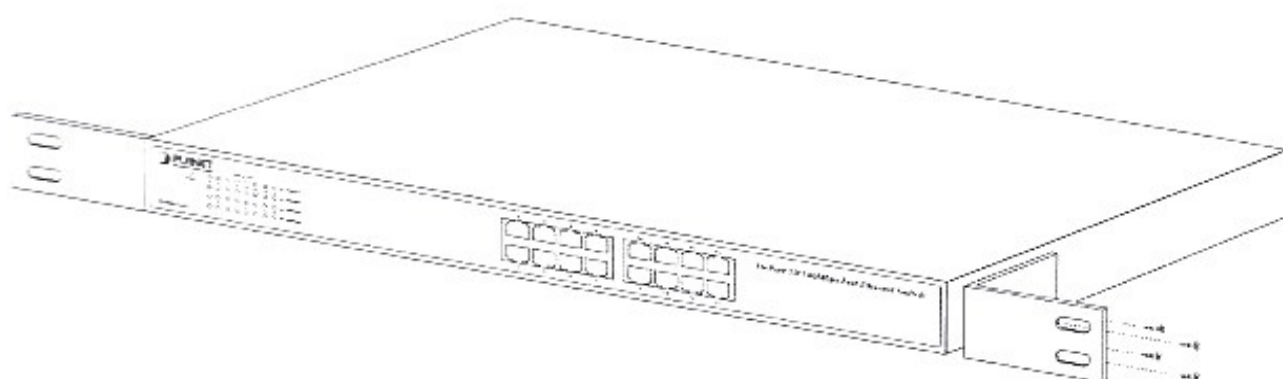


Figure 4: Attaching the brackets to the Fast Ethernet Switch



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.

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- Step 4:** Follow the same steps to attach the second bracket to the opposite side.
- Step 5:** After the brackets are attached to the Fast Ethernet Switch, use suitable screws to securely attach the brackets to the rack, as shown in Figure 5.

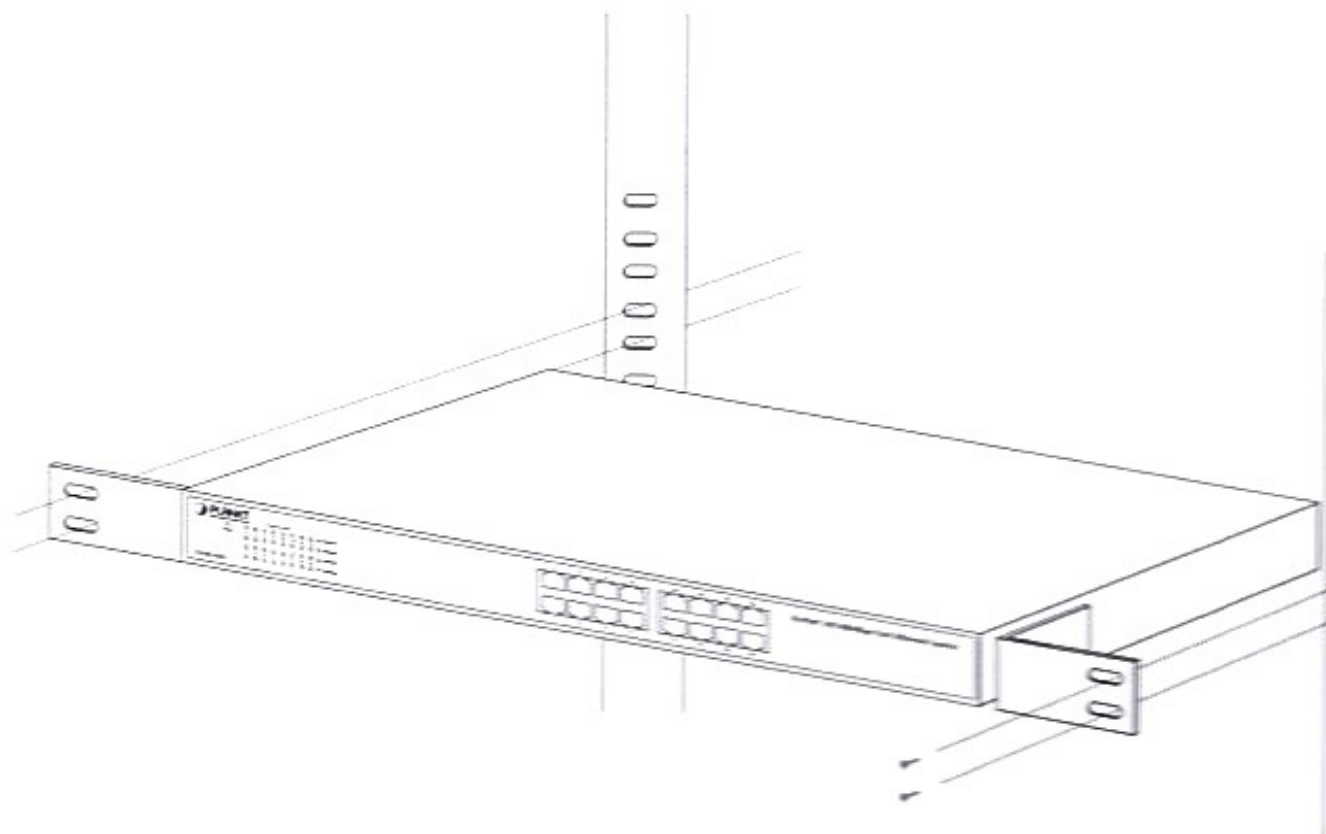


Figure 5: Mounting the Fast Ethernet Switch in a Rack

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

7. 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

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 consuming power from the power source. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to remove the power connection for the device if this device is not intended to be active.

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