

48-Port 10/100Mbps  
Fast Ethernet Switch

FNSW-4800

User's Manual

Thank you for purchasing PLANET 48-Port 10/100Mbps Unmanaged Fast Ethernet Switch, FNSW-4800. “**Fast Ethernet Switch**” mentioned in this user’s manual means the FNSW-4800.

- The box should contain the following items:
- Fast Ethernet Switch x 1
- User’s Manual x 1
- Power Cord x 1
- Rubber Feet x 4
- Rack-mounting Bracket x 2 with Attachment Screw 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 again to repack the product in case there is a need to return it to us for repair.

## 2. Product Features

### Physical Port

- 48 10/100Mbps Fast Ethernet ports
- Supports auto MDI/MDI-X function

### Layer 2 Features

- Complies with IEEE 802.3, 10BASE-T, IEEE 802.3u 100BASE-TX Ethernet standard
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware Based 10/100Mbps, half / full duplex mode, flow control, auto-negotiation
- Complies IEEE 802.3x flow control for full duplex operation and backpressure for half duplex operation
- Integrated address look-up engine, supporting 16K absolute MAC addresses
- 9K Jumbo packet support
- IEEE 802.1Q VLAN packet transparent support
- Automatic address learning and address aging
- Supports CSMA/CD protocol

### Hardware Features

- 100~240V AC, 50~60Hz, 0.3A universal power input
- FCC, CE Class A compliant

## 3. Product Specifications

Product	FNSW-4800
Hardware Specifications	
Hardware Version	V3
10/100BASE-TX MDI/MDIX Ports	48
Throughput (packet per second)	7.14Mpps
Switch Fabric	9.6Gbps
Power Requirements	100~240V AC, 50/60Hz, 0.3A
Power Consumption / Dissipation	10 watts / 34 BTU
Dimensions (W x D x H)	440 x 180 x 44mm, 1U height
Weight	2kg
Switch Processing Scheme	Store-and-Forward
Address Table	16K entries
Packet Buffer	1056K bytes
Jumbo Frame Size	9216 bytes
IEEE 802.1Q VLAN Transparent	Support

Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity	Operating: 5% to 90% (non-condensing) 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)

## 4. Switch Front Panel

Figure 1 shows the front panel of the Fast Ethernet Switch.



Figure 1: FNSW-4800 Front Panel

### LED Indicators

#### System

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

#### Per 10/100Mbps Port

LED	Color	Function
LNK / ACT	Green	It lights to indicate the link through that port is established successfully. It blinks to indicate that the Switch is actively sending or receiving data over that port.

## 5. Switch Rear Panel

Figure 2 shows the rear panel of the Fast Ethernet Switch.

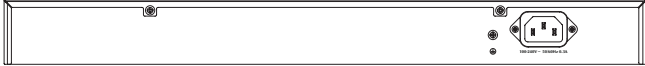



Figure 2: FNSW-4800 Rear Panel




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 Fast 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 Fast Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.



This Fast Ethernet Switch does not need software configuration.

### Department Networking Installation

To install the Fast Ethernet Switch in a department networking environment, simply follow the steps below:

- 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 that is near an AC power source.
- Step 3:** Keep enough ventilation space between the Fast Ethernet Switch and the surrounding objects.

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

- A.** Connect one end of a standard network cable to the 10/100 RJ45 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.

**Step 5:** Supply power to the Fast Ethernet Switch.

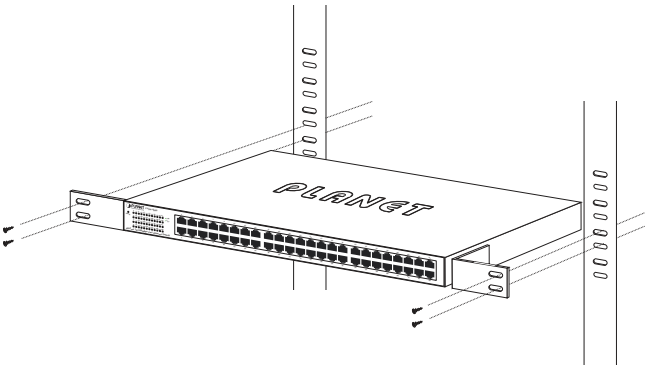
- A.** Connect one end of the power cable to the Fast Ethernet Switch.
- B.** Connect the power plug of the power cable to a standard wall outlet.

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

**Step 3:** Secure the brackets tightly.

**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 4.



**Figure 4:** Mounting the Fast Ethernet Switch on a Rack

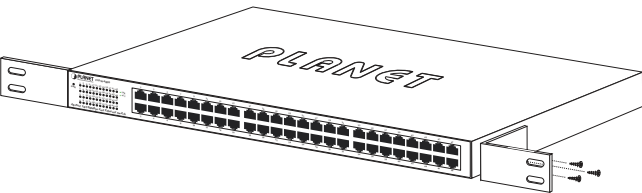
**Step 6:** Proceed with Steps 4 and 5 of **Department Networking Installation** to connect the network cabling and supply power to your Fast Ethernet Switch.

**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 3 shows how to attach brackets to one side of the Fast Ethernet Switch.



**Figure 3:** 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.

**Customer Support**

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the 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 FAQ:  
<http://www.planet.com.tw/en/support/faq.php?type=1>

Switch support team mail address:  
[support\\_switch@planet.com.tw](mailto:support_switch@planet.com.tw)

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**Unmanaged Switch**  
FNSW-4800

48-Port 10/100Mbps Fast Ethernet Switch



PLANET Technology Corp.  
2011-A50110-005



**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.

Auto  
Negotiation

10M  
100M

Jumbo  
FRAME

Auto  
MDI/MDI-X

Plug & Play

Metal Case



**EC Declaration of Conformity**

For the following equipment:

\*Type of Product: 48-Port 10/100Base-TX Fast Ethernet Switch  
\*Model Number: FNSW-4800

\* 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 (2004/108/EC).

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

EN55022	(2010 + AC:2011)
EN 61000-3-2	(2006+A1:2009+A2:2009)
EN 61000-3-3	(2013)
EN55024	(2010)
IEC 61000-4-2	(2008)
IEC 61000-4-3	(2010)
IEC 61000-4-4	(2012)
IEC 61000-4-5	(2005)
IEC 61000-4-6	(2013)
IEC 61000-4-8	(2009)
IEC 61000-4-11	(2004)
EN60950-1	(2006 + A11:2009 + A1:2010 + A12:2011)

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 : Product Manager

Taiwan  
Place

16<sup>th</sup> Jan., 2014  
Date

Legal Signature