5-/8-Port Fast Ethernet Switch

FSD-503/FSD-803
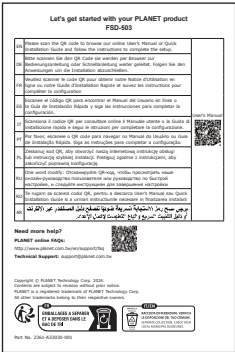
User's Manual

Table of Contents

1. Package Contents

Check the contents of your package for the following parts:

Fast Ethernet Switch x 1 (Vary on the model)	5V DC, 550mA Power Adapter x 1	QR Code Sheet 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 again to repack the product in case there is a need to return it to us for repair.

2. Product Features

■ **RJ45 Interface**

➢ 5/8 10/100Mbps Fast Ethernet ports

➢ Complies with IEEE 802.3, 10BASE-T, IEEE 802.3u 100BASE-TX Ethernet standards

➢ Supports auto MDI/MDI-X function

■ **Switching**

➢ Hardware-based 10/100Mbps, half/full duplex, flow control and auto-negotiation

➢ Features Store-and-Forward mode with wire-speed filtering and forwarding rates

➢ IEEE 802.3x flow control for full duplex operation and backpressure for half duplex operation

➢ Integrated address look-up engine, supporting 1K absolute MAC addresses (FSD-503/FSD-803)

➢ Handles up to 1536bytes packet size

➢ Automatic address learning and address aging

➢ Supports CSMA/CD protocol

■ **Hardware**

➢ Made of metal, desktop size and wall-mount design

➢ LED indicators for system power, per port Link/Act

➢ 5V DC, 550mA external power adapter

➢ FCC, CE Class B compliant

3. Switch Front Panel

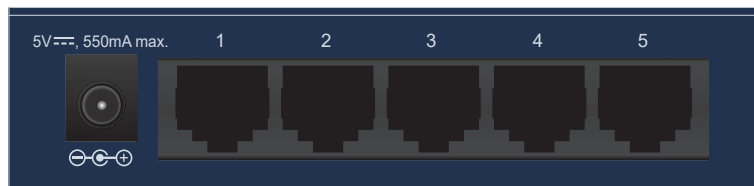Figures 3-1 and 3-2 show the front panels of FSD-503 and FSD-803, respectively.

Figure 3-1: FSD-503 Front Panel

Figure 3-2: FSD-803 Front Panel

4. LED Indicators

LED	Color	Function	
PWR	Green	Light	Indicates that the Switch is powered ON.
		OFF	Indicates that the Switch is powered OFF.
Link/ACT	Green	Light	Indicates the link through that port is successfully established at 10/100Mbps.
		Blink	Indicates the Switch is actively sending or receiving data over that port.

5. Switch Rear Panel

Figures 5-1 and 5-2 show the rear panels of FSD-503 and FSD-803, respectively.

Figure 5-1: FSD-503 Rear Panel

Figure 5-2: FSD-803 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 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.

Note	This Switch does not need software configuration.

Desktop Installation

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

Step 1: Place the Switch on the desk near a power source.

Step 2: Keep some ventilation space between the Switch and the surrounding objects.

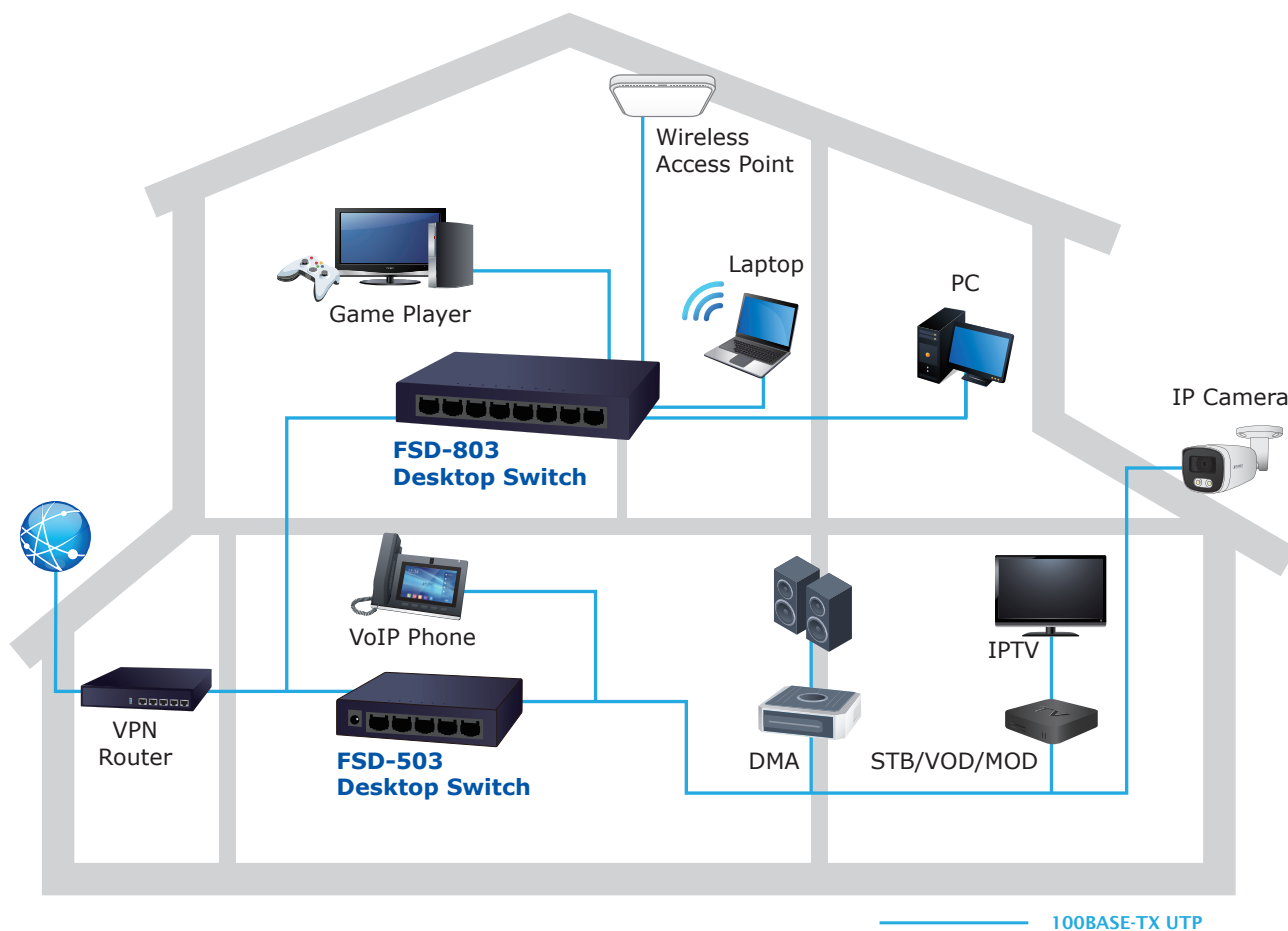|	
Note	When choosing a location, please keep in mind the environmental restrictions discussed in Chapter 7 under Product Specifications.

Step 3: Connect your Switch to network devices.

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

    B. Connect the other end of the cable to the network devices such as printer servers, workstations or routers, etc.

Step 4: Supply power to the Switch.

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

    B. Connect the 5V DC power adapter to a standard wall outlet.

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

Game Player

Wireless
Access Point

Laptop

PC

IP Camera

**FSD-803
Desktop Switch**

VoIP Phone

**FSD-503
Desktop Switch**

VPN
Router

DMA

STB/VOD/MOD

IPTV

100BASE-TX UTP

7. Product Specifications

Product	FSD-503	FSD-803
Hardware Specifications		
Hardware Version	5	
10/100BASE-TX Ports	5 auto MDI/MDIX ports	8 auto MDI/MDIX ports
LED Display	One for power, one for Link/ACT per Port	
Enclosure	Metal	
Dimensions (mm)	100 x 64 x 24mm	140 x 67 x 26mm
Weight (g)	148g	220g
Power Requirements (External power adapter)	5V DC, 550mA	
Power Consumption/ Dissipation (Full operation)	1.3 watts/4.4BTU	2 watts/6.8BTU
Switch Specifications		
Switch Processing Scheme	Store-and-Forward	
Address Table	1K	1K
Shared Buffer	488Kbits	488Kbits
Flow Control	Back pressure half duplex, IEEE 802.3x pause frame full duplex	
Switch Fabric	1.0Gbps	1.6Gbps
Throughput (packet per second)	0.744Mpps	1.19Mpps
Maximum Packet Size	1536bytes	

Standards Conformance	
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (Full-duplex Flow Control) IEEE 802.3az Energy Efficient Ethernet (EEE)
Regulatory Compliance	FCC Part 15 Class B, CE
Environments	
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity	Operating: 5% to 95%, Storage: 5% to 95% (non-condensing)

8. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on 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 FAQs:
https://www.planet.com.tw/en/support/faq

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