1. Package Contents

Check the following contents of your package:

- Fast Ethernet High Power PoE Switch x 1
- User's Manual x 1
- Power Adapter x 1
- Power Cord x 1
- Rubber Feet x 4

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.

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2. Product Features

■ RJ-45 Interface

◇ Five 10/100Mbps Fast Ethernet ports

◇ 4 ports support 56V DC power to PoE Powered Device

■ Power over Ethernet

◇ Complies with IEEE 802.3af / at Power over Ethernet Mid-Span PSE

◇ Up to 4 IEEE 802.3af / 2 IEEE 802.3at devices powered

◇ Supports PoE Power up to 30 watts for each PoE port

◇ 60 watts PoE Budget

◇ Auto detects powered device (PD)

◇ Circuit protection prevents power interference between ports

◇ Remote power feeding up to 100m

■ Switching

◇ Hardware based 10/100Mbps Auto-Negotiation and Auto MDI/MDI-X

◇ Flow control for Full Duplex operation and back pressure for Half Duplex operation

◇ 1536Bytes packet size support

◇ Integrates address look-up engine, supporting 1K absolute MAC addresses

◇ Automatic address learning and address aging

■ Hardware

◇ Desktop palm size

◇ LED indicators for PoE ready / activity and LINK / ACT

◇ One DC 56V power jack

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3. Switch Front Panel

Figure 3-1 shows the front panel of FSD-504HP.

Figure 3-1: FSD-504HP Front Panel

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4. LED Indicators

■ System

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

■ Per 10/100Mbps Port

LED	Color	Function
PoE	Orange	**Light:** Indicates the port is providing 56V DC in-line power.
LNK/ACT	Green	**Light:** Indicates the link through that port is successfully established at 10/100Mbps. **Blink:** Indicates that the Switch is actively sending or receiving data over that port.

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5. Switch Rear Panel

Figure 5-1 shows the rear panel of FSD-504HP.

Figure 5-1: FSD-504HP 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 area, installing a surge suppression device may also help to protect your FSD-504HP from being damaged by unregulated surge or current to the FSD-504HP or the power adapter. 3. The FSD-504HP acceptable power supply range is DC 48V to DC 56V.

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6. Installing the Switch

This part describes how to install your Fast Ethernet High Power PoE Switch and make connections to it. Please read the following topics and follow the procedures as presented.
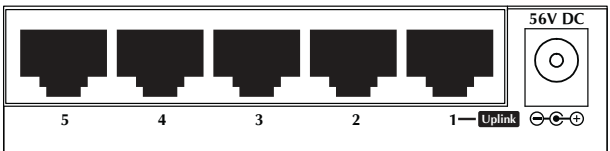
Note	This Fast Ethernet High Power PoE Switch does not need software configuration.

Desktop Installation

To install the Fast Ethernet High Power PoE Switch on desktop, simply follow the following steps:

Step 1: Attach the rubber feet to the recessed areas on the bottom of the Fast Ethernet High Power PoE Switch.

Step 2: Place the Fast Ethernet High Power PoE Switch on desktop near AC power source for its power adapter.

Step 3: Keep enough ventilation space between the Fast Ethernet High Power PoE Switch and the surrounding objects.

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

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

A. Connect one end of a standard network cable to the 10/100Mbps RJ-45 ports on the back of the Fast Ethernet High Power PoE Switch.

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

Step 5: Connect your Fast Ethernet High Power PoE Switch to PoE PD devices.

A. Connect one end of a standard network cable to port 2 to port 5 10/100Mbps RJ-45 ports on the back of the Fast Ethernet High Power PoE Switch.

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

PoE Switch
FSD-504HP

www.PLANET.com.tw

4-Port 10/100Mbps 802.3af/at PoE + 1-Port 10/100Mbps Desktop Switch

Cable distance for Switch
The cable distance between the FSD-504HP and PC / PD devices should not exceed 100 meters for UTP/STP cable.

Note

Make sure the wiring is correct
It can be used Category 3/4/5 cable in 10 Mbps operation. To reliably operate your network at 100Mbps, you must use an Un-shielded Twisted-Pair (UTP) Category 5/5e cable, or better data grade cabling. While a Category 3 or 4 cable may initially seem to work, it will soon cause data loss.

Note

Step 6: Supply power to the Fast Ethernet High Power 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 Switch receives power, the Power LED should remain solid Green.

Power Requirements	DC 56V, 1.5A.
Power Consumption	Max.62 watts / 211.5 BTU
Dimensions (W x D x H)	90 x 80 x 21mm
Weight	172g
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet / PSE IEEE 802.3at Power over Ethernet Plus / PSE
PoE Power Supply Type	Mid-Span
Power Pin Assignment	4/5(+), 7/8(-)
PoE Power Output	Per Port 56V DC, 300mA. Max. 15.4 watts (IEEE 802.3af) Per Port 56V DC, 600mA. Max. 30 watts (IEEE 802.3at)
PoE Power Budget	60 watts
Number of 802.3af PD Class 0, 1, 2, 3 can be powered	4
Number of 802.3at PD Class 1, 2, 3 can be powered	4

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CE ♻ ☒

PoE ⚡PD	802.3at Mid-span 802.3af	30W Per Port	15.4w per port	10M 100M	Metal Shape

7. Product Specifications

Model	**FSD-504HP** 4-Port 10/100Mbps 802.3af / at PoE + 1-Port 10/100Mbps Desktop Switch
Hardware Specifications	
Network Connector	5-Port RJ-45 for 10/100Base-TX, auto MDI / MDIX
PoE Inject Port	4-Port with 802.3af / at PoE injector function (Port 2 to port 5)
LED Display	**System:** Power (Green) **Per PoE port:** PoE (Orange, port 2 to port 5) LNK/ACT (Green, port 1 to port 5)
Switch Architecture	Store and Forward switch architecture
MAC Address Table	1K MAC address table with Auto learning function
Switch Fabric	1Gbps
Switch Throughput	0.74Mpps @64Bytes
Maximum Packet Size	1536Bytes
Flow Control	Back pressure for Half-Duplex. IEEE 802.3x Pause Frame for Full-Duplex

Number of 802.3at PD Class 0, 4 can be powered	2
Standard Conformance	
EMI Safety	FCC Class A, CE
Standard Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet
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

8. 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

EC Declaration of Conformity

For the following equipment:

*Type of Product: 4-Port 10/100Mbps 802.3af/at PoE + 1-Port 10/100Mbps Desktop Switch
*Model Number: FSD-504HP

* 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	(2008)
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	(2008)
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   15th Nov., 2013
Place   *Date*   *Legal Signature*

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