Single-Port 10/100/1000Mbps

802.3bt PoE++ Splitter

POE-173S-12V

User's Manual

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1. Package Contents

Thank you for purchasing PLANET POE-173S-12V Single-Port 10/100/1000Mbps 802.3bt PoE++ Splitter.

Model	LAN Port Speed	PoE Standard	DC Out
POE-173S-12V	10/100/1000Mbps	IEEE 802.3at/bt	12V

Please unpack the box of the POE-173S-12V carefully, and the box should contain the following items:

- ◆ 802.3bt PoE++ splitter x 1
- ◆ QR code sheet x 1
- ◆ 5.5/2.5mm to 5.5/2.5mm DC plug cable x 1
- ◆ 5.5/2.5mm to 5.5/2.1mm DC plug cable x 1
- ◆ 5.5/2.5mm to 5Pin/18AWG DC plug cable x 1 (For special order)
- ◆ 15cm RJ45 cable x 1

If any of these are missing or damaged, please contact your dealer immediately.

2. Product Features

◆ **Interface**

- 2 RJ45 interfaces

  ➢ 1-port **data + power** input

  ➢ 1-port **data output**

- 1-port DC plug-in

◆ **Power over Ethernet**

- Complies with 802.3bt Power over Ethernet plus plus PD

- Backward compatible with 802.3at PoE+ with up to 30-watt power output

- Splits the PoE power over RJ45 Ethernet cable into DC 12V output

- Distance up to 100 meters

◆ **Hardware**

- Metal case

- All-in-one compact size design

- PoE usage level LED indicators

3. Product Specifications

Model		POE-173S-12V
Hardware Specifications		
Interface	Ethernet	1 x 10/100/1000BASE-T RJ45, Ethernet data output port
	PoE in	1 x 10/100/1000BASE-T RJ45, PoE power input port
	Power socket	1 x DC plug-in
DC Socket		DC receptacle 2.5mm

LED Indicators		PoE in:
		  30W (Green)
		  60W (Green)
		  90W+ (Green)

Data Rate		10/100/1000Mbps
Dimensions (W x D x H)		94 x 70.3 x 39.2 mm
Weight		265g
Installation		Desktop/wall mountable/DIN-rail
Enclosure		Metal case
Power Requirements		48~56V DC PoE
Unit Output Current (at 56VDC Input)		**With 803.bt type 3 PoE++ input:** • 4.5A@12V DC **With 803.bt type 4 PoE++ input:** • 5A@12V DC
Power Consumption		**Ethernet full loading without DC output:** 6.5 watts **Full loading with maximum 12V DC, 5A output:** 70 watts
Network Cable	803.bt PoE (60W+)	4-pair UTP Cat. 5, 5e, 6 up to 100m (328ft)
	802.3at PoE (30W)	2-pair UTP Cat. 5, 5e, 6 up to 100m (328ft)

Power over Ethernet	
PoE Standard	802.3bt Type 3/4 Power over Ethernet 4-pair 802.3at PoE+ Compliant with voltage within 48-56V DC
Power Output	DC 12V
PoE Power Supply Type	End-span + Mid-span End-span Mid-span
Power Pin Assignment	1/2 (+), 3/6 (-); 4/5 (+), 7/8 (-) or 1/2 (-), 3/6 (+); 4/5 (+), 7/8 (-)
Standards Conformance	
Standards Compliance	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt 4-pair Power over Ethernet Type 4
Regulatory Compliance	FCC, CE
Environment	
Operating Temperature	0 ~ 50 degrees C
Storage Temperature	-10 ~ 70 degrees C
Humidity	5 ~ 95% (non-condensing)

4. Hardware Introduction

4.1 Product Outlook

Figure 1: POE-173S-12V Outlook

4.2 LED Indicators

LED	Color	Function
30W	Green	Lights to indicate the PoE splitter is connecting to 30W (or more) PoE power source.
60W	Green	Lights to indicate the PoE splitter is connecting to 60W (or more) PoE power source.
90W+	Green	Lights to indicate the PoE splitter is connecting to 90W (or more) PoE power source.

4.3 Physical Dimensions

POE-173S-12V dimensions (W x D x H): 94 x 70.3 x 39.2 mm

94.00

70.30

39.20

10/100/1000BASE-T
PoE In

PoE In 30W 60W 90W

POE-173S-12V
802.3bt PoE++ Splitter

PLANET

IEEE 802.3bt Power over Ethernet Splitter

10/100/1000BASE-T
Ethernet

12V⎓ Out

CAUTION Incorrect voltage might cause device damage

49.00

Ø7.00

4.00

PLANET
Networking & Communication

Single-Port 10/100/1000Mbps 802.3bt
PoE++ Splitter

Input 48-54V⎓, 1.5A max.
Output 12V⎓, 5A max.

For indoor use only!
This device complies with Part 15 of the FCC rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.

PLANET Technology Corp.

Made in Taiwan

Unit: mm

5. Hardware Installation

The following section describes the hardware features of the POE-173S-12V. Before connecting any network device to them, please read this chapter carefully.

Please refer to the following sections for detailed information about the POE-173S-12V.

5.1 Before Installation

Before installation, it is recommended to check your network environment. If there is difficulty in finding a power socket for AC-DC adapter of your non-PoE IEEE 802.3bt networked device, the POE-173S-12V provides you with a way out to supply DC power to this Ethernet device conveniently and easily.

> **Note**
>
> 1. Please ensure the output voltage is correct for remote device. Otherwise, it will damage your remote device.
>
> 2. The PoE circuits are designated as ES1 circuits. According to IEC TR 62102, the information technology equipment (ITE) is not connected to an Ethernet Network with external plant routing, including campus environment. The installation instruction clearly states that the ITE is to be connected only to PoE networks without any external plant routing.
>
> 3. This product is intended to be supplied by a Listed Power Supply, rated 48-56 Vdc, 1.5 A min., output complied with Limited Power Source (LPS) or PS2. Tma 50°C min. and altitude 2000 m min., if you need further assistance, please contact Planet for further information.
>
> 4. The power cord must be connected to a socket or outlet with a ground connection.

5.2 The POE-173S-12V Installation

1. Connect DC plug from **"DC Out"** of the POE-173S-12V to remote device.
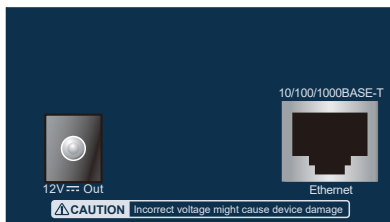
2. Connect standard UTP cable from **"Ethernet"** port of the POE-173S-12V to remote device.

3. Connect standard UTP cable from **"PoE In"** port of the POE-173S-12V to PoE switch/injector.
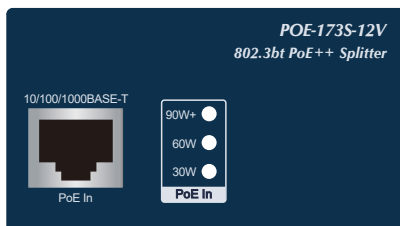
4. Power on the PoE switch/injector to enable the POE-173S-12V and remote device to be powered.

5.3 Wall-mount Installation

1. To install the POE-173S-12V on the wall, please follow the instructions described below.

2. Find the wall that you want to mount the POE-173S-12V on.

3. Refer to the picture below to screw the two screws on the wall to mount unit on the wall, making sure the screw size is 19mm in length and 4.1mm in diameter.
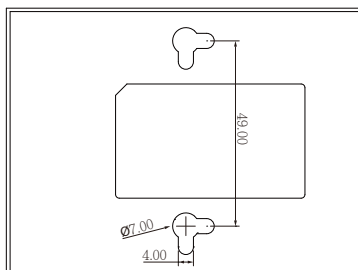

Unit: mm

4. Hang the POE-173S-12V on the screws from the wall.

5.4 DIN-rail Mounting (optional)

There are two DIN-rail holes on the left side of the POE-173S-12V that allows it to be easily mounted on the DIN rail. If the DIN-rail mounting is opted, the DIN-rail mounting kit (RKE-DIN) has to be ordered as it is not included in the package. The following steps for DIN-rail mounting are shown below:
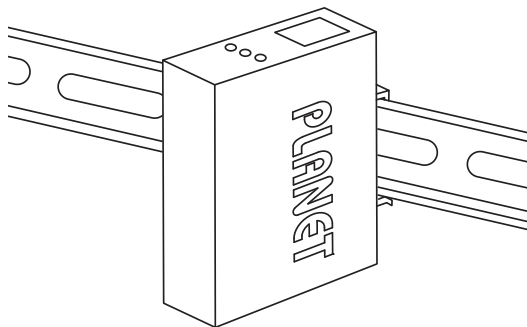
Step 1: Screw the DIN-rail bracket on the POE-173S-12V. The screw size is 4mm in length, and 3mm in diameter.
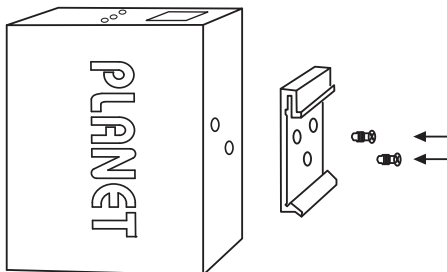
Step 2: First put the upper DIN-rail bracket on to the rail shown below and then slide the lower bracket into the rail to finish the mounting.
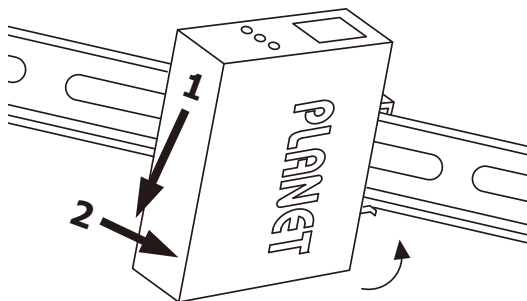
Step 3: Make sure the POE-173S-12V unit is tightly fixed on the track.

⚠ Caution

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

6. 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 support team.

PLANET online FAQs :
https://www.planet.com.tw/en/support/faq?method=category&c1=2

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

FCC Warning

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

IC Warning

CAN ICES-003(*) / NMB-003(*)

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.