

Product Specification

IEEE 802.3af Power over Ethernet Injector

POE-151

Version 1.0

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Change History:

Revision:	Date:	Author:	Change List
Version 1.0	2006/04/10	Marc Liao	Initial Release

Author:	Marc Liao	Editor:	Marc Liao
Reviewed By:	Tom Shih	Approved By:	Tom Shih

1. PRODUCT DESCRIPTION

For the cost saving and power management purpose, The POE-151 is an IEEE 802.3af Power over Ethernet Injector that provide DC 48V over Ethernet cables. The POE-151 IEEE 802.3af Power over Ethernet Injector inserts DC Voltage into Cat.5 cable, allowing the cable between the Injector (POE-151) and Splitter (POE-151S-5V/9V/12V) to transfer data and power simultaneously. The maximum distance between the Injector (POE-151) and Splitter (POE-151S-5V/9V/12V) is 100 meters. With POE-151 installed, it is combines the Ethernet digital data with power over the twisted pair cables as an IEEE 802.3af Power over Ethernet Injector. And the IEEE 802.3af Power over Ethernet splitter shall separate the digital data and the power into two outputs.

With IEEE 802.3af Power over Ethernet devices installed, the system administrator only have to use a single RJ-45 Ethernet cable to carries both power and data to each devices. Besides, to connect through POE-151 and POE-151S-5V/9V/12V, you could also have following benefit that, cost saving, easy for networking planning and higher reliability. What's more, upon any IEEE 802.3af devices installed, the POE-151 or POE-151S-5V/9V/12V all can make the connection while migrating or splitting the power and the Ethernet digital packets, such as connecting the POE-151 to an IEEE 802.3af complied devices, AP or IP phone.

2. PRODUCT FEATURES

- Comply with IEEE 802.3af Power over Ethernet, IEEE 802.3/802.3u 10/100Base-TX
- Provide DC 48V power over RJ-45 Ethernet cable to device with Ethernet port
- LED indicators power input indication
- Distance up to 100 meters
- Auto-detect of POE IEEE 802.3af equipment, protect devices from being damaged by incorrect installation
- Work with EIA568, category 5,4-pair cables for 10Base-T or 100Base-TX
- EMI standards comply with FCC, CE class B

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

PoE detector: PowerDsine PD64004 x1

3.2 FUNCTION SPECIFICATION

Model	POE-151
Ethernet Connector	2 x RJ-45(1 for data + DC in, 1 for Data out)
Ethernet Data rate	10/100Mbps(vary on Ethernet device attached)
Number of device can be powered	1
Ethernet cable	TIA/EIA-568, Category 5/5e cable
LED indicator	1 x power, 1 x POE ready / in-use
EMI	FCC Class B, CE mark
Standard Compliance	IEEE 802.3 Ethernet, IEEE 802.3u Fast Ethernet, IEEE 802.3af Power over Ethernet.

3.3 PHYSICAL SPECIFICATIONS:

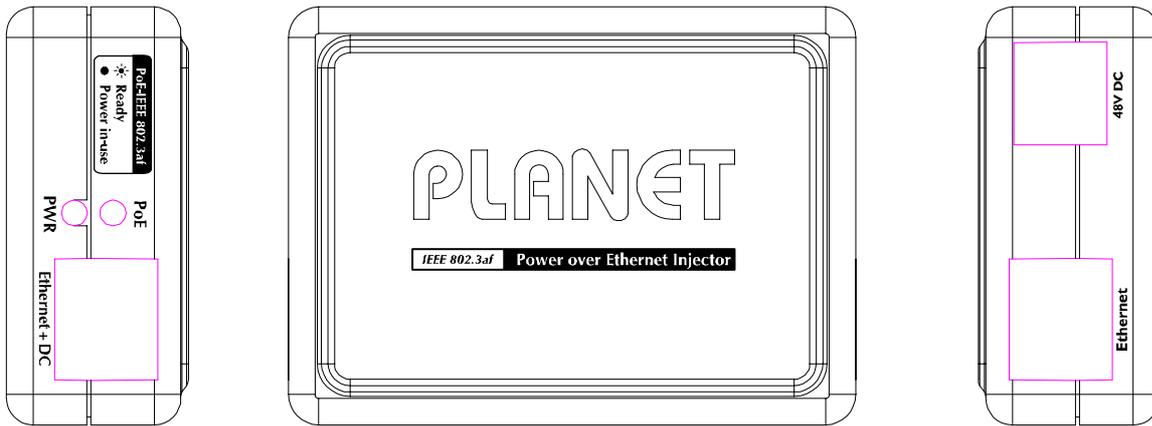
Dimensions:

73 x 55 x 24mm (W x D x H)

Weight:

50g

Product outlook:



LED definition:

LED	Color	Function
Power	Yellow	Lights to indicate that the POE-151 has power.
PoE ready / in-use	Green	Lights to indicate the port is providing 48VDC in-line power.

3.4 ENVIRONMENTAL SPECIFICATION

Operating:

- Temperature:** 0°C ~ 50 degree C
- Relative Humidity:** 5% ~ 90% (non-condensing)

Storage:

- Temperature:** -20°C ~ 70 degree C
- Relative Humidity:** 5% ~ 90% (non-condensing)

3.5 ELECTRICAL SPECIFICATION

Input Voltage:

DC 48V, 0.4A

3.6 REGULATORY COMPLIANCE

FCC Class B, CE.

3.7 REALIABILITY

MTBF > 50,000 hrs @ 25 degree C

3.8 BASIC PACKAGING

Power over Ethernet Injector x 1

User's manual CD x 1

Power Adapter x 1

Power cord x 1

3.9 Packing Dimension

Dimension: 285 mm (W) x 135 mm (D) x 70 mm (H)

Weight: 600g (Gross Weight)