

# Product Specification

IEEE 802.3af Power over Ethernet Injector

**POE-152**

Version 1.0

This document contains confidential proprietary information and is property of PLANET. The contents of this document should not be disclosed to unauthorized persons without the written consent of PLANET.

## Change History:

<b>Revision:</b>	<b>Date:</b>	<b>Author:</b>	<b>Change List</b>
Version 1.0	2006/12/15	Marc Liao	Initial Release

<b>Author:</b>	Marc Liao	<b>Editor:</b>	Marc Liao
<b>Reviewed By:</b>	Tom Shih	<b>Approved By:</b>	Tom Shih

## 1. PRODUCT DESCRIPTION

The POE-152 is an IEEE 802.3af Power over Ethernet Injector that provides DC 48V over Ethernet cables. The POE-152 IEEE 802.3af Power over Ethernet Injector inserts DC Voltage into Cat.5 cable, allowing the cable between the Injector (POE-152) and Splitter (POE-152S-5V/12V) to transfer data and power simultaneously. The maximum distance between the Injector (POE-152) and Splitter (POE-152S-5V/12V) is 100 meters. With POE-152 being installed, it 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.

Unlike existing Power over Ethernet Injector, except the 10/100Mbps Fast Ethernet connection ability, the POE-152 also provide 1000Mbps Gigabit Ethernet connection ability.

With IEEE 802.3af Power over Ethernet devices being installed, the system administrator only has to use a single RJ-45 Ethernet cable to carry both power and data to each device. Besides, to connect through POE-152 and POE-152S-5V/12V, you could also have benefits including cost saving, easy for networking planning and higher reliability. What's more, upon any IEEE 802.3af devices being installed, the POE-152 or together with POE-152S-5V/12V can make the connection while migrating or splitting the power and the Ethernet digital packets, such as connecting the POE-152 to an IEEE 802.3af complied devices, AP or IP phone.

## 2. PRODUCT FEATURES

- Complies with IEEE 802.3af Power over Ethernet, IEEE 802.3/802.3u /802.3ab 10/100/1000Base-T
- Provides 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
- Works with EIA568, category 5, 5e or 6 ,2/4-pair cables for 10Base-T or 100Base-TX and 1000Base-T
- EMI standards complies with FCC, CE class B

## 3. PRODUCT SPECIFICATION

### 3.1 MAIN COMPONENT

PoE detector: PowerDsine PD64004 x1

### 3.2 FUNCTION SPECIFICATION

Model	POE-152
Ethernet Connector	2 x RJ-45( 1 for data + DC in, 1 for Data out)
Ethernet Data rate	10/100/1000Mbps( vary on Ethernet device attached)
Number of device can be powered	1
Ethernet cable	TIA/EIA-568, Category 5/5e/6 cable
Standard Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet, IEEE 802.3ab Gigabit Ethernet IEEE 802.3af Power over Ethernet

### 3.3 PHYSICAL SPECIFICATIONS:

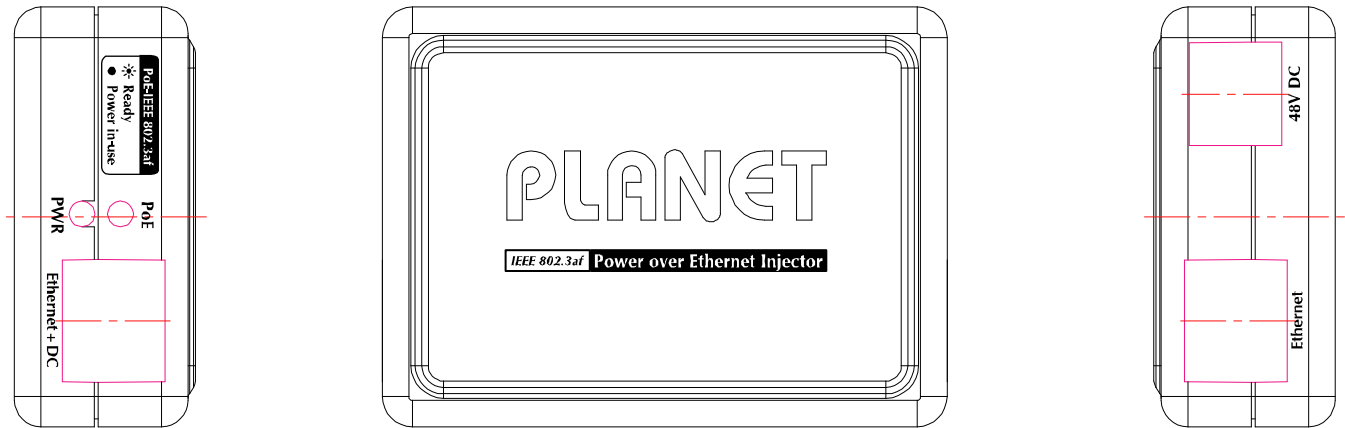
**Dimensions:**

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-152 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)