

## Product Specification

24-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub

**POE-2400G**

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2009/08/10	Norman Tsai	Initial release

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## 1. PRODUCT DESCRIPTION

The PLANET POE-2400G is a 24 Port Gigabit IEEE 802.3af Power over Ethernet Mid-Span injector hub. It complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab and IEEE 802.3af standards. It is equipped with 24 10/100/1000Base-T Gigabit Ethernet ports that support full 48VDC power for any remote IEEE 802.3af powered device (PD) like Wireless LAN Access Point, IP phone, LAN Camera or any other network devices. With support for 380 Watts power supply, POE-2400G can provide the sufficient power to the 24 remote devices.

The POE-2400G is installed between a regular Ethernet Switch and the powered devices, injecting power without affecting the data transmit. It offer a cost effective solution and quickly way to upgrade network system to IEEE 802.3af Power over Ethernet, without replace the existing Ethernet Switch.

There are 48 RJ-45 ports on the front panel of hub, 24 of them on lower stack are "Data" port and the other 24 ports on upper stack are "Data + Power output" port. Each of the "Data + Power output" port on upper stack functions as an injector which inserts DC Voltage into the CAT 5 / 5e / 6 cable allowing the cable between the Injector and Splitter to transfer data and power simultaneously.

To manage your powered devices, POE-2400G provides both Web management interfaces in which administrators can manage functions such as port Enable/Disable, port priority, Total Power Limited, PoE Schedule, SNMP, system configuration, and Username/Password changing and with smart feature for powered device, the Hub can auto detect the power status on each port and show messages Web management interface. These features also provide a cost-effective way to manage the devices from Internet whenever you are at work or at Home.

All RJ-45 copper interfaces support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. Support is standard for Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

## 2. PRODUCT FEATURES

- Complies with the IEEE 802.3, IEEE 802.3u and IEEE 802.3ab Ethernet standard
- 48-Port RJ-45
  - 24 -Port 10/100/1000Mbps "Data input"
  - 24 -Port 10/100/1000Mbps "Data + Power output"
- 1-Port 10/100Base-TX Management Port
- Power over Ethernet
  - Complies with IEEE 802.3af Power over Ethernet Mid-Span PSE
  - Up to 24 IEEE 802.3af devices powered
  - Supports PoE power up to 15.4 Watts for each PoE ports and total could be up to 380 Watts maximum
  - Automatically detect powered device (PD)
  - Circuit protection prevent power interference between ports
  - Remote power feeding up to 100m
- PoE Management
  - Total PoE power budget control
  - Per port PoE power schedule
  - Per port PoE function enable/disable
  - PoE port power feeding priority
  - Per PoE port power limit

- PD classification detection
- Over Temperature Protection

■ Management

- Web interface for remote management
- Supports Network Time Protocol
- Firmware upgrade through Web interface
- PLANET Smart Discovery utility automatically finds PLANET devices on the network
- SNMP Trap for alarm notification of events

■ Hardware

- 19-inch rack mountable; 1U height
- Reset button for reset to default setting and system reboot
- LED indicators for POE ready and POE activity

■ Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3af Power over Ethernet

■ FCC Part 15 Class A, CE

### 3. PRODUCT SPECIFICATION

#### 3.1 MAIN COMPONENT

<b>Web Server Controller:</b>	RealTek RTL8186V	X1
<b>Power over Ethernet Controller:</b>	Power Dsine PD64012	X2
<b>Power Supply</b>	200 Watts	X2

### 3.2 FUNCTIONAL SPECIFICATIONS

<b>Product</b>		<b>POE-2400G</b>
<b>Hardware Specification</b>		
<b>Interface</b>	<b>“Data” Input Ports</b>	24 x RJ-45 STP/UTP
	<b>“Data+Power” Output Ports</b>	24 x RJ-45 STP/UTP
	<b>Management Port</b>	1 x RJ-45; 10/100Base-TX, auto-negotiation, auto-MDI / MDI-X
<b>LED</b>		System: PWR x 1 PWR Alert x 1 FAN Alert x 1 Per PoE Port: PoE in Use x 1
<b>Network Cable</b>		10Base-T: 2-Pair UTP Cat. 3, 4, 5, up to 100m (328ft) 100Base-TX: 2-Pair UTP Cat. 3, 4, 5, up to 100m (328ft) 1000Base-T: 2-Pair UTP Cat. 6, 5e up to 100m (328ft) EIA/TIA- 568 100-ohm STP (100m)
<b>Cooling</b>		Fan x 2
<b>Management</b>		
<b>Management Interface</b>		WEB Browser
<b>Power over Ethernet</b>		
<b>PoE Standard</b>		IEEE 802.3af Power over Ethernet / Mid-Span PSE
<b>PoE Power supply Type</b>		Mid-Span
<b>Number of 802.3af device can be powered</b>		24
<b>PoE Power Output</b>		Per Port 48V DC, 350mA . Max. 15.4 Watts
<b>Power Pin Assignment</b>		4/5(+), 7/8(-)
<b>Power Budget</b>		Total 380 Watts
<b>Standards Conformance</b>		
<b>Standards Compliance</b>		IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3af Power over Ethernet

### 3.3 PHYSICAL SPECIFICATION

#### Front Panel

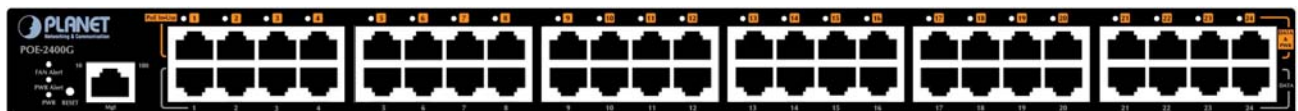


Figure 1. POE-2400G Front Panel

## Rear Panel



Figure 2. POE-2400G Rear Panel

### LED Definition

LED	Color	Function
FAN Alert	Green	Lights to indicate 2 FANs both have been stop.
Power Alert	Green	Lights to indicate one of power supply has failure.
Power	Green	Lights to indicate power on.
PoE In-use	Green	Lights to indicate that the port is in use and supplying 48V DC power.

## 3.4 ENVIRONMENTAL SPECIFICATION

### Operating:

**Temperature:** 0°C ~ 50 Degree C

**Relative Humidity:** 5% ~ 95% (non-condensing)

### Storage:

**Temperature:** -40°C ~ 70 Degree C

**Relative Humidity:** 5% ~ 95% (non-condensing)

## 3.5 ELECTRICAL SPECIFICATION

**Input Voltage:** 100 -240V AC, 50 / 60Hz, 4.4A

**PD Input Voltage:** 48V DC

### Power Consumption:

System Power on:

100V AC	110V AC	220V AC	240V AC
25.3Watts	24.6Watts	23.9Watts	23.9Watts

PoE in use: 380 Watts / 1297 BTU (Maximum)

## 3.6 REGULATORY COMPLIANCE

FCC Class A, CE.

## 3.7 RELIABILITY

MTBF > 50,000Hrs

### 3.8 BASIC PACKAGING

- 24-Port Gigabit IEEE 802.3af Power over Ethernet Injector Hub x1
- User's Manual x1
- Quick Installation Guide x1
- 19" Rack mounting kit x1
- Power Cord x1
- Rubber Feet x 4

### 3.9 PACKING INFORMATION

#### Dimensions

440 x 200 x 44mm (W x D x H), 1U height

#### Weight:

3.3kg