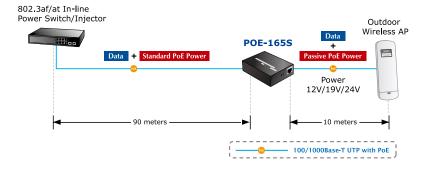# IEEE 802.3af/at to Passive PoE Power Converter (12V/19V/24V)

Simplify Internet Usage with Passive PoE Converter

PLANET POE-165S IEEE 802.3af/at to Passive PoE Converter convert a standard IEEE 802.3af/at PoE input powered device to 12V/19V/24V passive PoE power output device, designed to solve the issue of the difficulty in finding power outlets in outdoor places. Being able to operate under wide temperature range from -40 to 75 degrees C, the POE-165S can be placed in almost any difficult environment. The POE-165S is suitable for either DIN rail or wall mounting for the efficient use of cabinet space.

802.3af/at In-line
Power Switch/Injector

Outdoor
Wireless AP

POE-165S

Data | + | Standard PoE Power

Data
+
Passive PoE Power

Power
12V/19V/24V

90 meters

10 meters

100/1000Base-T UTP with PoE

Innovative Selectable DC Power Output Voltage

Via the innovative 12/19/24 volt DIP switch, the POE-165S can supply 12V/19V/24V DC power to the network devices, such as outdoor wireless access point. It highly increases the flexibility of the product applications.

Interface

- 2-Port 10/100/1000Mbps RJ-45 interfaces
  - 1-Port Data + Power output
  - 1-Port Data + 802.3af/at Power input

Standard Power over Ethernet Input Port

- Complies with IEEE 802.3af/at Power over Ethernet PD

Passive Power over Ethernet Output Port

- Non-IEEE 802.3af/at injector port
- 1 DC 12V/19V/24V DIP switch
- Power Output Pin: 4/5(+), 7/8(-)

Hardware

- Metal case
- LED indicators for PoE-In LED and 12V/19V/24V Output Voltage LED

Standard Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3at High Power over Ethernet
- IEEE 802.3af Power over Ethernet
- FCC Part 15 Class A, CE

Easy Centralized Power Management

As the POE-165S can obtain power from IEEE 802.3af/at PoE switch/injector and supply the power to the remote device by passive PoE port, network administrator can remotely power off/on the remote device by the managed PoE switch/injector through the POE-165S.
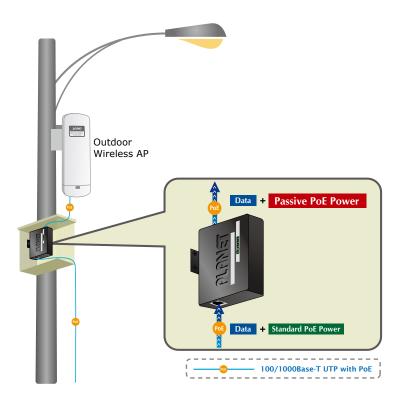
Plug and Play, Easy Cabling Installation

With IEEE 802.3af/at Gigabit Power over Ethernet devices installed, the system administrator only has to use one single RJ-45 Ethernet cable to transmit both power and data to each device. Besides, by connecting the Industrial High Power PoE Injector with the POE-165S, you can also have the benefits of cost saving, easy networking planning and high network reliability.

Applications

IEEE 802.3af/at to Passive PoE Power Converter Installation

Due to the capability of IEEE 802.3af/at standard, the POE-165S can co-work with the IEEE 802.3af/at Gigabit PoE injector devices. The POE-165S has three optional outputs (12V/19V/24V DC) for non-PoE devices, such as multi-channel wireless LAN access points and other network devices.

Specifications

Model		POE-165S
Hardware Specification		
Interface	PoE In Port	1 x IEEE 802.3af/at RJ-45 STP / PD
	Passive PoE Out Port	1 x non-802.3af/at RJ-45 STP / PSE
LED Indicator		System – PoE In (Green) Passive PoE Out – 12V (Green) – 19V (Green) – 24V (Green)
Network Cable		10Base-T: 2-Pair UTP Cat. 3, 4, 5 100Base-TX: 2-Pair UTP Cat. 3, 4, 5 1000Base-T: 2-Pair UTP Cat. 5, 5e, 6 EIA/TIA-568 100-ohm STP
DIP Switch		12V/19V/24V DC Output Voltage
Power Input		IEEE 802.3af/at Power over Ethernet End-Span / Mid-Span Class 4 PD
Power Output		Maximum Passive PoE 12V DC, 0.7A 19V DC, 0.7A 24V DC, 0.7A
Power Output Pin Assignment		4/5(+), 7/8(-)
Data Rate		10/100/1000Mbps
Maximum Distance		Up to 100meters (Including the POE-165S)
Dimensions (W x D x H)		94 x 70.3 x 26.2 mm
Weight		182g
Number of devices that can be powered		1
Operating Temperature		-40 ~ 75 degrees C
Storage Temperature		-40 ~ 85 degrees C
Operating Humidity		5 ~ 90%, Relative Humidity, non-condensing
Storage Humidity		5 ~ 90%, Relative Humidity, non-condensing
Compliant PLANET Outdoor Wireless Devices		
2.4GHz		WNAP-6320 @ 12V/19V/24V
5GHz		WNAP-7206 @ 12V WNAP-7300 @ 19V/24V WNAP-7320 @ 12V/19V/24V
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 High Power over Ethernet IEEE 802.3af Power over Ethernet
Regulation Compliance		FCC Part 15 Class A, CE

Ordering Information

POE-165S	IEEE 802.3af/at to Passive PoE Power Converter (12V/19V/24V)

Available PDs for POE-165S

WNAP-7206	5GHz 802.11a/n Wireless Outdoor Access Point
WNAP-7300	5GHz 802.11a/n Wireless LAN Outdoor AP
WNAP-7320	5GHz 300Mbps 802.11a/n Wireless Outdoor Access Point

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City
231, Taiwan (R.O.C.)
Tel: 886-2-2219-9518   Fax: 886-2-2219-9528
Email: sales@planet.com.tw   www.planet.com.tw

POE-165S