

USER GUIDE

POE & Optical Transmission

International Standard Intelligent POE injector

ONV

Statement

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Packing List

Please kindly check the following items:

- ▶ 1. POE injector 1 piece
- ▶ 2. Power cable 1 piece
- ▶ 3. Machine parts 1 set
- ▶ 4. User Manual /Warranty Card/conformity certificate

⚠ Note

If any shortage or damage found, please contact us in time.

Product overview

Product Introduction

ONV's POE injectors completely abide by IEEE802.3af/IEEE802.3at/LTPoE++(super high power) protocols, 15.4watts/30watts/95watts as port output maximum power. Basing on the existing network interface and no need change anything, using a Cat5 & Cat5e UTP and more advanced UTP to supply the power source to small-power network devices, meanwhile and offering data transmission. This will decrease the use of external power cables, bringing down the cost, guaranteeing the network running stably.

Low cost to realize power over Ethernet, no need to change existing network. POE injectors can easily realize power over Ethernet so that saving the purchasing of POE switch and power cable, which brings down the cost of network devices for the users. This series includes 1000Mbps speed rate POE products, supports 10/100/1000Mbps transmission speed rate. To reduce the equipment cost at the same time, will not reduce the data transmission rate, which brings high-effective, high-speed, high-quality experience to the users.

⚠ Note

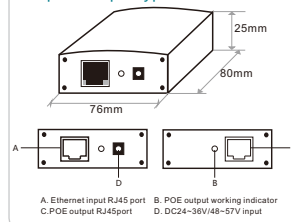
The words "POE injector" etc. referred in this user guide, if no special explanations, it will mean International Standard Intelligent POE injector, Hereinafter referred to as POE injector.

Feature

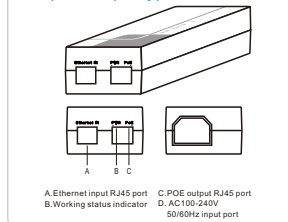
- ▶ Be Compliant with IEEE802.3, IEEE802.3u, IEEE802.3af/IEEE802.3at standard
- ▶ Offer 10/100Mbps, 10/100/1000Mbps adaptive RJ45 port, support POE function
- ▶ 2 x N pieces 10/100Mbps copper cable RJ45 port + 1 piece AC female jack (AC110-245V input) or 1 piece DC female jack (DC24-36V /48-57Vinput);
- ▶ Single POE port can support power up to 15.4watts(af) or 30watts(at)/95watts(LTPoE++)
- ▶ Supply the power to the powered devices that are compliant with IEEE802.3af/at standard
- ▶ CE mark, commercial, FCC, Part 15 Class B, RoHS;
- ▶ The small, compact, quiet design with free heat dissipation is suitable for desk-mounted and wall-mounted type.
- ▶ Support lightning protection for network port and power input port, up to level 2 lightning protection
- ▶ Panel indicators monitoring work status & help, fault analysis.
- ▶ High-performance full load power characteristic

Technical Structure and Port Description

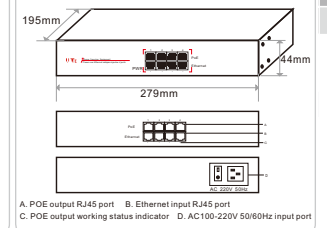
Single-port POE injector
DC power input type



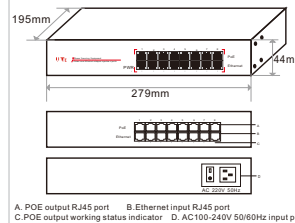
Single-port POE injector
AC power input type



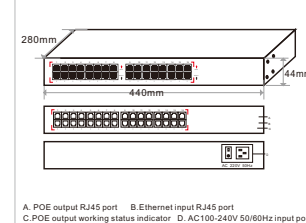
4-port POE Mid-span injector



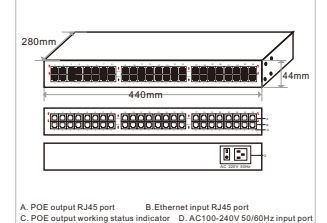
8-port POE Mid-span injector



16-port POE Mid-span injector



24-port POE Mid-span injector



Indicator description:

Indicator	Status	Description
Power indicator: P	ON	Working
	OFF	Power off
PoE indicator: PoE (Green LED)	ON	Connected PD device, working properly
	Blink	Short circuit or Current overload
	OFF	No connected PD device or No power supply

- ⚠ Note:** 1) Please make sure that powered devices conform to IEEE802.3af/at
2) PoE injector that supports LTPoE++ high power standard can achieve super high power supply function

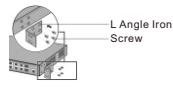
Connect to power

Smart managed PoE switch adopts AC 100-240V, 50/60Hz.

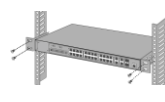
1. Please check the power supply specification matches with the required;
2. Connect switch power wire to AC power socket, shown as in the following figure.



Power Supply Connection Figure



Mounting Kits Installation Figure



Rack Installation Figure

After installation, please check:

If there is enough space for heat sink; if the power socket is suitable for switch specification; if the power, switch and rack are properly grounded and if the connection between switch and other network equipments are normal.

Installation guide

Please install with the supporting devices.

Installation

Please confirm the following things before installation:

1. Whether POE port power supply power meet the power requirement of the connected devices or not .
2. Whether the POE standard requirements and power supply mode match with the powered devices or not , Mid-span : 4,5+; 7,8- / End-span : 1,2+; 3,6-;
3. Whether the power of the matched power adapter is consistent with the label specification requirement of the Ethernet switch

Please install the POE injectors as per following steps :

1. Put POE injectors on big enough and steady desk
2. Use the power adapter to connect with power input port , and use power cable to connect the power socket.
3. Connect network devices with the Ethernet port via network cable

⚠ Note

1. Don't put any heavy goods on the POE injectors and make sure POE injectors get excellent ventilation and heat dissipation environments
2. Please turn off the power before hot plugging

Power

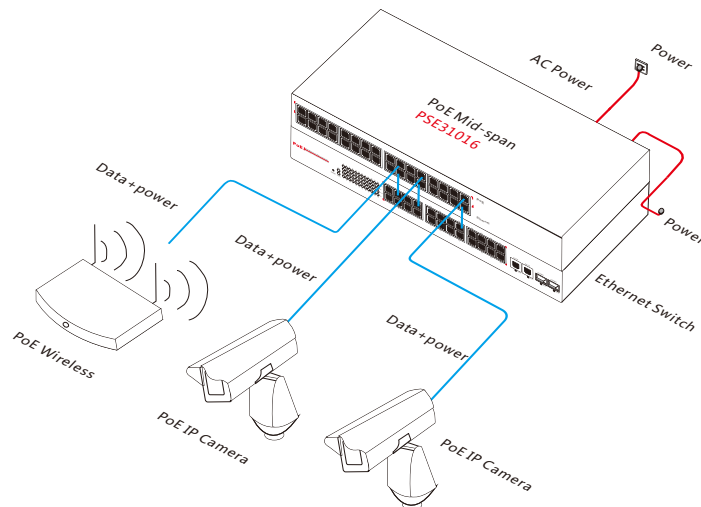
Connect with power cable , insert jack , turn on the power . After startup, the LEDs shows following conditions :

1. Power LED indicator is on all the time
2. After the POE port connects with PD , POE indicator is ON.

⚠ Note

If initialization is inconsistent with the above, please check the power.

Connection Diagram



Model description with details

- PSE3101AC:** single-port 10/100Mbps POE injector , single port supports POE IEEE802.3af, AC100-240V input , POE port output power : 15.4watts , total power : 18watts.
PSE3101AC-at: single-port 10/100Mbps POE injector , single port supports POE IEEE802.3at, AC100-240V input , POE port output power : 30watts/total power : 35watts.
PSE3301AC: single-port 10/100/1000Mbps POE injector , single port supports POE IEEE802.3af, AC100-240V input , POE port output power : 15.4watts , total power : 18watts.
PSE3301AC-at: single-port 10/100/1000Mbps POE injector , single port supports POE IEEE802.3at, AC100-240V input , POE port output power : 30watts , total power : 35watts.
- PSE3301DC:** DC input single-port 10/100/1000Mbps POE injector , single port supports POE IEEE802.3af, DC12-36V input , POE port output power : 15.4watts , total power : 18watts.
PSE3301DC: DC input single-port 10/100/1000Mbps POE injector , single port supports POE IEEE802.3af, DC12-36V input , POE port output power : 15.4watts , total power : 35watts.
- PSE3104:** 4-port 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, 50/60Hz, POE port power : 15.4watts , total power : 65watts
PSE3104-at: 4-port 10/100Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, 50/60Hz, POE port power : 30watts , total power : 130watts
PSE3304: 4-port 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, 50/60Hz, POE port power : 15.4watts , total power : 65watts
PSE3304-at: 4-port 10/100/1000Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, 50/60Hz, POE port power : 30watts , total power : 130watts
- PSE3108:** 8-port 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 130watts
PSE3108-at: 8-port 10/100Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 250watts
PSE3308: 8-port 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 130watts
PSE3308-at: 8-port 10/100/1000Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 250watts
- PSE31016:** 16-port 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 250watts
PSE31016-at: 16-port 10/100Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 400watts
PSE33016: 16-port 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 250watts
PSE33016-at: 16-port 10/100/1000Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 400watts
- PSE31024:** 24-port 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 400watts
PSE31024-at: 24-port 10/100Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 600watts
PSE33024: 24-port 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 15.4watts , total power : 400watts
PSE33024-at: 24-port 10/100/1000Mbps POE mid-span injector , IEEE802.3at, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 30watts , total power : 600watts
- PSE3401:** 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 60watts
PSE3401G: 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 60watts
PSE3501: 10/100Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 95watts
PSE3501G: 10/100/1000Mbps POE mid-span injector , IEEE802.3af, Voltage input: 48-57VDC, power: AC100-240V, POE port power : 95watts

Tel:+86-755-33376606 Fax:+86-755-33376608 Email:ovn@onv.com.cn
 Address: Room 1003, Block D , Tairan building , Chegongmiao, Futian district, Shenzhen ,China
 Factory address: No 5, A building, SenYuTai S&T park, Longhua road, BaoAn district, Shenzhen, China

www.onv.com.cn