



Multi Port Passive POE injector

GPOE-48v10w

Gigabit Power over Ethernet 48 volt step up injector



This device provides a low cost solution for delivering power to an 802.3af or 48 volt device over 328ft of network cable. This scheme allows power to be carried on 10/100/1000 networks on CAT5E, CAT6 or CAT7 Ethernet network cable. The source power is any supply from 10v to 30v, and the output voltage is 48 volts.

Power into the device is either from the 2.1mm DC connector – OR – from the RJ45 male pins 4,5 + (plus) and 7,8 – (minus). The device passes 10/100/1000 Ethernet.

Any battery (12v or 24v) or passive PoE injector can now power a 48 volt device directly. Plug it into spare ports on a multi port Passive PoE injector, or connect it to any 12v to 30 volt power source – and power a Phone, WiFi-Access Point, camera or other device. The higher DC voltage of 48 volts compared to 12 volts, means the wire loss is reduced by a factor of 16, thus carried with less loss over the spare pairs of the 10BASE-T or 100BASE-T network cable. The remote device extracts the DC voltage from the network cable and powers its internal electronics.

If power is applied to the 2.1mm input – power will be isolated from the male RJ-45 – so it can be plugged into a switch or router. The output voltage of 48 volts comes on pins 3,6 + (plus) and 1,2 –(minus) of the female RJ-45 in order to power any 802.3af device.

Typical Devices

- IP VOIP phones • IP Cameras • WiFi Access Points
- IP Time Clocks,
- Any 48v device
- Any 802.3af device



RJ45
48v PoE
Data+Power

Specifications

Data + Power in	RJ 45 male connector
DC input connector	2.1mm x 5.5mm adapter
Data + Power out	RJ 45 Female connector
Network Type	10/100/1000
Data Pins	All 4 pairs
Power Pins input	4 & 5 + and 7 & 8 -
Input Voltage	10v to 30VDC
Output Voltage	48v +- 2% at .2 amps
Power Pins Out	3 & 6 + and 1 & 2 -
Operating Temperature	0°C ~ 50°C



Injector and switch combined

URL:

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Technical Support:
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Multiport PoE passive injectors