



Multi Port Passive POE injector

GPOE-24v10w

Gigabit Power over Ethernet 24 volt step up injector



This device provides a low cost solution for delivering battery or 12v power to a 24 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 24v, and the output voltage is 24 volts.

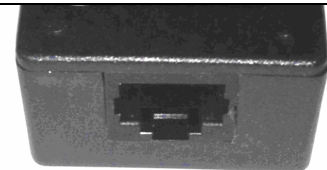
Power into the device is either from the 2.1mm DC connector – OR – from the RJ45 male pins 4,5 + (plus) and 7,8 – (minus). The device passes 10/100/1000 Ethernet.

A battery of 12v during discharge or up to 24v during charging can now power a 24 volt device like a Mikrotik or Ubiquiti. The higher DC voltage of 24 volts compared to 12 volts, means the wire loss is reduced by a factor of 4, 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 it's internal electronics.

If power is applied to the 2.1mm input – power will be isolated from the male RJ-45 – so the male Rj45 can be plugged into a switch or router. The output voltage of 24 volts comes on pins 4,5 + (plus) and 7,8 –(minus) of the female RJ-45 in order to power any mode B device.

Typical Devices

- Mikrotik
- Ubiquiti



RJ45
24v power
10/100/1000 Data

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 24VDC
Output Voltage	24v +- 2% at .4 amps
Power Pins Out	4 & 5 + and 7 & 8 -
Operating Temperature	0°C ~ 50°C



PoE World
24v PoE switch

URL:

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Multiport PoE passive injectors