



## Multi Port Passive POE injector

### WS-POE-48v

### Power over Ethernet 48 volt supply



This device provides a low cost solution for delivering power to a 802.3af or 48 volt device over 328ft of network cable. This scheme allows power to be carried on 10/100 networks over the spare, unused pairs of a CAT5, CAT5E, CAT6 or CAT7 Ethernet network cable. The source power is any supply from 10v to 30v, and the output voltage is 48 volts.

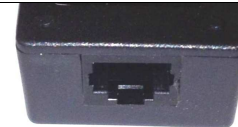
Power into the device is either from the 2.1mm DC connector – OR – from the RJ45 male pins 45+ and 78- . Both do not have to be used, just one is required. The device does 10/100 ethernet.

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 it's internal electronics.

The input voltage can be applied to the 2.1mm female connector – or from a passive PoE injector using Mode B ( 45+ and 78-). 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 data pins of 12 and 36 pass directly thru. The output voltage of 48 volts comes on 45+ and 78- of the female RJ-45.

#### 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	10BASE-T, 100BASE-T
Data Pins	1&2 and 3&6
Power Pins	4&5 + and 7 & 8 -
Input Voltage	10v to 30VDC
Output Voltage	48v +- 2% at .2 amps
Operating Temperature	0°C ~ 50°C



Injector and switch combined

WiFi-Texas.com  
Inc  
815-A Brazos  
#326  
Austin Tx, 78701  
512 479 0317  
<http://wifitexas.com>



Multiport PoE passive injectors

