

### 2USB to PoE Power Injector

#### Features

- Remotely Power 24VDC and 48VDC Passive PoE Equipment thru CAT5 Cable from Two USB Power Sources.
- A Must for Every Wireless Tech Tool Kit!
- Up to 12W Passive 24VDC or 48VDC PoE Output Power
- Short Circuit, Over Current and Over Voltage Protection
- 10/100Mb Compatible



#### Applications

- Troubleshooting Passive POE Wireless Systems
- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems

#### Description

The TP-DCDC-2USB-xx Passive Power Over Ethernet Power Source offered by Tycon Power Systems are unique 24VDC and 48VDC Passive PoE injectors powered by USB. They work by supplying up to 12W power to the remote device on the 4 unused Ethernet pins 4,5(+) and 7,8(-). The Ethernet spec supports distances up to 100m (328 feet).

The TP-DCDC-2USB-xx have two USB port cables that take advantage of combining the power from two standard USB ports to provide an output power of up to 12W. They have various protections for short circuit, overload and overvoltage.

This USB powered PoE injector is a must for any technician's toolbox because it allows powering of Ubiquiti and Mikrotik as well as other 24VDC Passive PoE products from a laptop's USB port. The 48VDC passive PoE model is perfect for powering IP Phones, Cameras and other devices that use 48VDC PoE. This allows the technician to quickly test the device by direct connection to his laptop, saving him a lot of time. The TP-DCDC-2USB-xx can also be used in customer premise equipment to power external wireless gear from a customer's computer USB ports, reducing wiring clutter at the PC and allowing the wireless gear to be powered down when the computer is powered down to conserve energy.

#### Device Pinouts

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	NC	No Connection	+Vdc	DC power(+)
5	NC	No Connection	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc	DC power(-)
8	NC	No Connection	-Vdc	DC power(-)

**General Specifications**

	<b>TP-DCDC-2USB-24</b>	<b>TP-DCDC-2USB-48</b>
<b>USB Input</b>	5VDC	5VDC
<b>POE Voltage</b>	24VDC @ 0.5A	48VDC @ 0.25A
<b>Output Power</b>	12W maximum	12W maximum
<b>Efficiency (min)</b>	72%	72%
<b>Line / Load Regulation</b>	1% / 5%	1% / 5%
<b>Ripple / Noise</b>	1% / 5%	1% / 5%
<b>Cable Lengths</b>	2USB 4"(100mm) , CAT5 20"(500mm)	2USB 4"(100mm) , CAT5 20"(500mm)
<b>POE Compatibility</b>	Passive PoE Pins 4,5(+), 7,8(-)	Passive PoE Pins 4,5(+), 7,8(-)
<b>Data Compatibility</b>	10/100M	10/100M
<b>Protections</b>	Over-Voltage, Short Circuit, Over-Current	Over-Voltage, Short Circuit, Over-Current
<b>Environmental Standards</b>	RoHs	RoHs
<b>Operating Temperature</b>	-30 to +50°C (-22 to +122°F)	-30 to +50°C (-22 to +122°F)
<b>Operating Humidity (RH)</b>	5% - 90%	5% - 90%
<b>Storage Temperature</b>	-40 to +80°C (-40 to +176°F)	-40 to +80°C (-40 to +176°F)
<b>Dimensions</b>	85 x 76 x 36mm (3.4 x 3 x 1.4")	85 x 76 x 36mm (3.4 x 3 x 1.4")
<b>Weight</b>	134g (4.7oz)	134g (4.7oz)

**Notes:**

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Power Sources carry a 1 year warranty



TP-DCDC-2USB-24  
2USB Powered 24VDC Passive POE Converter/Inserter

**System Ordering:**

**TP-DCDC-2USB-24** 24VDC 12W 2USB to Passive PoE Power Source

**TP-DCDC-2USB-48** 48VDC 12W 2USB to Passive PoE Power Source

**For further information contact:**

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