



Innovative Electronics for a changing world

Manual – Enclosed version and open pcb + base plate version



Mi POE SP 802.3bt – 90Watt

90Watt Gigabit passive POE injector with surge protection and user adjustable power mode and polarity per pair , capable up to 90Watts POE power output. (90watts POE = 802.3bt standard)

The POE-SP 802.3bt can power any Ethernet device due to the user configurable power output jumpers, the POE can be set to **Mode B** power (2 pairs power) or **Mode B + Mode A** (4 pairs power) and can also be used for Reverse polarity radios in mode B or Mode B +A power by adjusting the power select jumpers on the board.

Single channel GB POE injector with surge protection on DC power input and on POE port.

External DC input power 12Vdc to 60VDC.

DC Input power protected by 60V overvoltage and spike protection TVS diode.

Positive input power line protected by 2.5 Amp user changeable glass fuse. (2.5Amp 5x20mm fuse)

DC power input polarity protection will blow fuse if incorrect polarity connected.

3 Pole GAS arrestor semiconductors across all Ethernet data pairs of the POE port for spikes and surge protection.

Earth wire connection terminal for discharge path from RJ45, user can connect to + or – earth.

POE Power output user configurable on the printed circuit board.

Each pair of the Ethernet cable (wire 1,2) , (wire 3,6) , (wire 4,5) and (wire 7,8) can be programmed by the jumpers to output **NO** power , **positive** power or **negative** power on each of the pairs.

Power per pair is indicated on the printed circuit board and on the sticker.

Please consult the datasheet of the POE device to be connected to the POE-SP 802.3bt and set the power output according to the specifications.

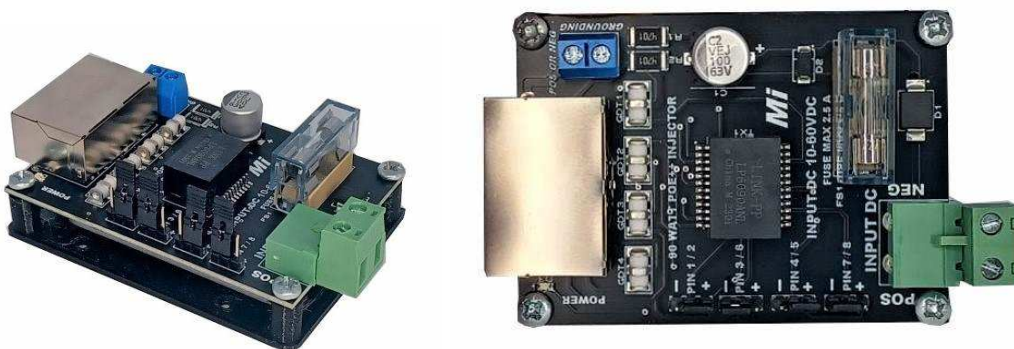
90Watt 802.3bt LAN transformer.

RJ45 casing isolated, not internally connected to + or - but connected to the Earth terminal, user can use the earth terminal to link the RJ45 outer casing to + or – supply for earthing.

For negative (-) grounded Radios connect the earth terminal with a thin wire to – DC in or Earth

For positive (+) grounded Radios connect the earth terminal with a thin wire to + DC in or Earth

POE-SP - OPEN PCB VERSION



OPTIONAL POE BASE FOR OPEN PCB TYPE (POE Base 802.3bt)

19" Rack mount POE base plate available for POE-SP-802.3bt open pcb version **OPEN PCB**

Please order POE-SP-PCB only for use with base plate or stand alone

7 x POE SP 802.3bt **Open PCB** injectors can be mounted on the base plate.

