

P/N: MS-POE-KIT

48V PoE Injector with Splitter

Specification

Part 1: Injector (P/N: MS-POE-IJ)

FUNCTION: Transform AC power to 48V DC power. Inject 48V DC through CAT-5 cable pin# 4, 5, 7, 8, into remote devices such as Wireless AP, IP Phone, Web Camera, etc.

1. INPUT :

1.1 Input Voltage: **AC 100V – AC 240V**

2. OUTPUT : DC 48V, 350mA

3. EFFICIENCY: 75% Min

4. PROTECTION

4.1 Short Circuit Protection:

Any output Short GND Terminal will lead Auto-Reset.

4.2 Over Load Protection

Load current over 450mA will lead Auto-Reset.

4.3 High Voltage Protection

Output DC voltage over 52V will lead Auto-Reset.

5. GENERAL DESCRIPTION

5.1 Operation Temperature: -0 - +60 Degree

5.2 Storage Temperature: -10 - +70 Degree

5.3 Operation Humidity: 5% - 90%

5.4 Cooling: Free air cooling

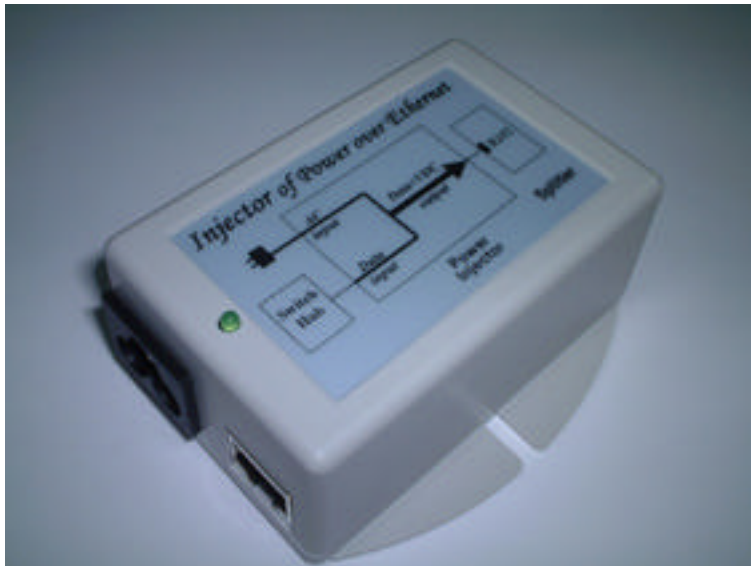
6. CHANNEL CONNECTORS & PINOUT

RJ-45 Output (Data & Power)			RJ-45 Input (Data Only)	
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	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
5	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
6	Tx-	Data Transmit	Tx-	Data Transmit
7	-Vdc	Feeding power(-)	NC	Not Connected
8	-Vdc	Feeding power(-)	NC	Not Connected
9	Shield	Connector shielding	Shield	Connector shielding

Note : pins 7 and 8(-Vdc) should not be shorted to ground.

7. MECHANICAL AND DIMENSION

- 7.1 Plastic Case Material: ABS
- 7.2 Plastic Case Finish: Texture
- 7.3 Plastic Case Color: Gray
- 7.5 Plastic Case Dimension: 85mm (L) * 76mm (W) * 36mm (H)



Part 2: Splitter (P/N: MS-POE-SPxx)

FUNCTION: Work with Power Injector, as a data/power splitter and DC to DC converter.

1. INPUT :

1.1 Input Voltage: -13.5Vdc to -60Vdc , Normal = 48V or 24Vdc

2. OUTPUT :

2.1 Output Voltage & Current:

MS-POE-SP03	
OUTPUT	+3.3V
Max. load	2.4A
Power	12W
Min. Load	0.1A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%

MS-POE-SP05	
OUTPUT	+5V
Max. load	2.4A
Power	12W
Min. Load	0.1A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%

MS-POE-SP12	
OUTPUT	+12V
Max. load	1A
Power	12W
Min. Load	0.1A
Load reg. %	1%
Line reg. %	1%
Ripple %	1%

Note: 1. Total power 12W for 48Vin, 6W for 24Vin.

2. Ripple bandwidth is from DC to 20Mhz. Ripple & Noise is measured by Paralleling a 0.1uF metalized capacitor on the test point.

3. EFFICIENCY: 73% Min

4. SHORT CIRCUIT PROTECTION

Any output Short GND Terminal will not damage the Power Supply and will Auto-Reset.

5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -0 - +60 Degree
- 5.2 Storage Temperature: -10 - +70 Degree
- 5.3 Operation Humidity: 5% - 90%
- 5.4 Cooling: Free air cooling

6. CHANNEL CONNECTORS & PINOUT

RJ-45 Input (Data & Power)			RJ-45 Output (Data Only)	
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	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
5	-Vdc_return(+)	Feeding power(+)	NC	Not Connected
6	Tx-	Data Transmit	Tx-	Data Transmit
7	-Vdc	Feeding power(-)	NC	Not Connected
8	-Vdc	Feeding power(-)	NC	Not Connected
9	Shield	Connector shielding	Shield	Connector shielding

Note: pins 7 and 8(-Vdc) should not be shorted to ground.

6.2 DC Power Plug diameter: $2.1\Phi / 5.5\Phi$, length: $12\pm 0.5\text{mm}$, 180 degree angle.

Polarity : inside (+), outside (-)

7. MECHANICAL AND DIMENSION

7.1 Plastic Case Material: ABS

7.2 Plastic Case Finish: Texture

7.3 Plastic Case Color: Gray

7.5 Plastic Case Dimension: 85mm (d) * 76mm (w) * 36mm (h)

7.6 Weight: 135g

7.7 CAT-5 UTP Cable Length: 200mm, RJ-45 plug. Gray color.

7.8 DC Power Cable Length: 200mm, DC power plug. Gray color



Part 3 Package

Package include:

Power Injector

Splitter

AC cord (USA / Europe /Japan plugs available, 180cm long)

Installation manual

White box (267 x 160 x 45mm)

20pcs / Carton, Net weight: 12Kg, Gross weight: 13Kg, 1.8Cuft.

