

P/N: MS-POE-KIT

48V PoE Injector with Splitter Specification

Part 1: PoE 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 : AC 100V – AC 240V

2. OUTPUT : DC 48V, 350mA

3. EFFICIENCY: 70% 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%

6. RJ-45 CONNECTOR & PINOUT

Pin	RJ-45 Output (Data & Power)		RJ-45 Input (Data Only)	
	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

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)



Picture 1: PoE Injector

Part 2: PoE 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 , Nominal = 48V or 24Vdc

2. OUTPUT :

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

3. EFFICIENCY: 70% 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%

6. RJ-45 CONNECTOR & PINOUT

Pin	RJ-45 Input (Data & Power)		RJ-45 Output (Data Only)	
	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_retum(+)	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

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

- 6.2 DC Power Plug diameter: 2.1 / 5.5 , length: 12+/-0.5mm, 180 degree angle.
Polarity : inside (+), outside (-)

7. MECHNICAL 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: 20cm, RJ-45 plug, Gray color.
- 7.8 DC Power Cable Length: 20cm, DC power plug, Gray color



Picture 2: POE Splitter

Part 3 : Complete PoE Kit (P/N: MS-POE-KIT)

Kit Package includes:

- * Power Injector
- * Splitter
- * AC cord (USA / Europe /Japan plugs available, 180cm long)
- * Quick guide
- * White box (267 x 160 x 45mm)

Package info:

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



Picture 3: POE KIT Box Package