



# MSTronic Europe

2 Route des Grands Champs, 16130 Genté, France

Tel/Fax: (33) 5 45 83 30 72

email: [craig.paton@mstroniceurope.com](mailto:craig.paton@mstroniceurope.com)

web: <http://www.mstroniceurope.com>

## MIT-06I

### POE Active Splitter with Isolation

#### SPECIFICATION

**FUNCTION:** MSTronic's MIT-06I Power over Ethernet (PoE)

Active Splitter offers a compact and cost effective solution for remote powering of WLAN Access Points, VoIP and network security cameras.

The MIT-06I PoE Active Splitter works with Power Injector, as a data/power splitter and DC to DC converter. Compliant with IEEE 802.3af and CISCO inline-power injector. All materials meet RoHS standard.



#### 1. INPUT :

- 1.1 Input voltage: DC-40V to DC-60V Normal = -48V
- 1.2 Under voltage lockout: DC -30V

#### 2. OUTPUT :

- 2.1 Output voltage and current:

MODEL	MIT-06I-0805	MIT-06I-0809	MIT-06I-0812	MIT-06I-1205	MIT-06I-1212	MIT-06I-1224
OUTPUT	+5V	+9V	+12V	+5V	+12V	+24V
Max. load	1.6A	0.88A	0.67A	2.4A	1.0A	0.5A
Power	8W Max	8W Max	8W Max	12W Max	12W Max	12W Max
Min. Load	0A	0A	0A	0A	0A	0A
Load reg. %	5%	5%	5%	5%	5%	5%
Line reg. %	1%	1%	1%	1%	1%	1%
Ripple %	2%	2%	2%	2%	2%	2%
Noise %	5%	5%	5%	5%	5%	5%

TOTAL POWER :8 ~ 12W

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz.

Terminated with a 47uF capacitor and 0.1uf MPE capacitor of proper polarity.

3. **EFFICIENCY :** 78% min @ -48Vdc in

#### 4. PROTECTION :

4.1 Short circuit protection:

Output short GND Terminal will not damage the power supply, and will auto-reset.

Mode is current limited (IO [lim] = IO x1.5 max)



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- 4.2 Operating frequency: 100KHZ (min)
- 4.3 Isolation voltage: 1500Vrms
- 4.4 Isolation resistance: 100M ohms (min)
- 4.5 Input set class resistance: 25K ohms

## 5. GENERAL DESCRIPTION :

- 5.1 Operating temperature: -25 - +60 degrees
- 5.2 Storage temperature: -40 - +85 degrees
- 5.3 Operation humidity: 5% - 90% relative
- 5.4 Cooling: Free air cooling

## 6. RJ-45 CONNECTOR & PINOUT :

<b>RJ -45 Output (Data Only)</b>		
<b>Pin</b>	<b>Symbol</b>	<b>Description</b>
1	Rx+	Data Receive
2	Rx-	Data Receive
3	Tx+	Data Transmit
4	NC	Not Connected
5	NC	Not Connected
6	Tx-	Data Transmit
7	NC	Not Connected
8	NC	Not Connected

Note: 1. Pins 7 and 8 (-Vdc) must not be shorted to ground.

2. Power input can be on pins 1,2,3,6 (Cisco) or 4,5,7,8 (802.3af)

- 6.2 DC power plug diameter: 5.5mm x 2.1mm. Length: 12+/-0.5mm, 180 degree angle. Polarity : inside (+), outside (-)

## 7. MECHANICAL DESCRIPTION AND DIMENSIONS :

- 7.1 Plastic case material: ABS
- 7.2 Plastic case finish: Texture
- 7.3 Plastic case color: Gray
- 7.4 Plastic case dimension: 85mm (d) x 76mm (w) x 36mm (h)
- 7.5 Weight: 110g
- 7.6 CAT-5 UTP Cable Length: 30cm, RJ-45 plug, gray color.
- 7.7 Power cable length: 30cm, DC power plug, gray color

- 8. **E M I :** Meets FCC Class B standard  
Meets NE55022 Class B standard



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## 9. SERIES PRODUCT :

MIT-06 non-802.3af splitter

MODEL	MIT-06-03	MIT-06-05	MIT-06-12
OUTPUT VOLTAGE	3.3V	5V	12V
OUTPUT CURRENT	2.4A	2.4A	1A

MIT-06T non-802.3af splitter with surge/lightning protection on signal pairs

MIT-06I 802.3af compliant splitter

MIT-06IT 802.3af compliant splitter with surge/lightning protection on signal pairs

## 10. SPECIFICATION OF SURGE/LIGHTNING PROTECTION ( OPTION )

Operating Voltage	Data 5V
Clamping Voltage	Data 11V
Peak Pulse Current	36A (10/1000uS)
Pin Protected	4 pin protected (1/2, 3/6)
Protection Mode	Common mode
Max. Shut Capacitance	< 5 pF
Data Rate	100 Mbps
Response Time	< 1 nS
Operating Temperature	-20C ~ +60C
Storage Temperature	-40C ~ +80C
Operating Humidify	0~95% non condensing