



# MSTronic Europe

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## Power over Ethernet

### MIT-07DT PoE Injector

MSTronic's MIT-07DT Power over Ethernet (PoE) Active Injector offers a compact and cost effective, fully IEEE 802.3af compliant solution for remote powering of Wireless LAN (WLAN) Access Points, Voice over IP phones and network security cameras. The MIT-07DT PoE Active Injector automatic detection and protection of legacy Ethernet terminals eliminates the need for external power supply and its associated AC/DC power cabling - providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure. All materials meet RoHS standard.



### Benefits

- Easy plug and play installation
- Saves time, and reduces installation costs
- Investment protection of existing Ethernet switches and cabling infrastructure
- Safe powering of standard compliant, as well as legacy end-terminals
- Cost effective power distribution for WLAN access point installations
- Surge voltage protection on signal pairs.

### Description of Features

- Compact design. The MIT-07DT is a small and compact standalone product. No additional components are needed - just add an AC power cord.
- Standard Compliance. The MIT-07DT is a PoE Active Injector, fully compatible with IEEE 802.3af standard. It features a standard auto-sensing algorithm and provides safe power to remote terminals.
- Upgrade legacy Ethernet Switches. The MIT-07DT Power over Ethernet (PoE) Active Injector connects to legacy Ethernet infrastructure, enables users to upgrade their existing Ethernet switches, and provides Power over Ethernet capabilities. The MIT-07DT generates safe power over standard Category 5 cabling. By sending 48V. Ethernet terminals, such as wireless LAN access points, IP Phones and network cameras are powered remotely. An external splitter may be installed where a device is not standard compliant.
- Easy to Install. The MIT-07DT PoE Active Injector is a plug-and-play device. It automatically



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detects the PoE terminal and supply Power over Ethernet.

- Concise LED Displays. The MIT-07DT has a two-colored LED, indicating normal, overload or short-circuit conditions.
- Surge voltage protection. A suppression circuit safely protects data signals.
- All materials meet RoHS standard.

## Specifications

No. of Ports	1
Data Rates	10/100 Mbps
Power over Ethernet Output	Pin Assignment and Polarity: 4/5 (+), 7/8 (-) Output Power Voltage: -48V User Port Power: 15.4W min.
Input Power Requirements	AC Input Voltage: 90 to 264 Vac AC Input Current: 0.4A @ 110 Vac /0.2A @ 220 Vac AC Frequency: 47 to 63 Hz
Dimensions	85 mm (L) x 76 mm (W)x 36 mm (H)
Weight	150 g
Indicators	AC Powered (Red), Channel Powered (Green), Channel Alarm (Red)
Connectors	2 Shielded RJ-45, EIA 568A and 568B
Environmental Conditions	Operating Ambient Temperature: 32 to 104°F (0 to 60°C) Operating Humidity: Maximum 90%, Non-condensing Storage Temperature: -40 to 158°F (-40 to 70°C) Storage Humidity: Maximum 93%, Non-condensing
Certificate	CE, FCC

## Packaging

One carton holds 100 pieces of MIT-07. The carton dimension is 52 x 47 x 27cms, and the gross weight (GW) is 18 kg. AC cords are shipped separately. One carton contains 100 pieces of 4 foot AC cords with a GW of 16 kg.



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## Surge/Lightning Protection

	Signal	Power
Operating Voltage	Data 5V	385 VDC
Clamping Voltage	Data 11V	775 VDC
Max. Surge Discharge Current		1200 A (8/20uS)
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	-20°C~+60°C	
Storage Temperature	-40°C~+80°C	
Operating Humidify	0~95% non condensing	

## Series Products

### MIT-07 non-802.3af injector

MODEL	MIT-07-48	MIT-07-24	MIT-07-18	MIT-07-12
OUTPUT VOLTAGE	48V	24V	18V	12V
OUTPUT CURRENT	0.5A	0.8A	1A	1A



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## MIT-07T non-802.3af injector with surge/lightning protection on signal pairs

MODEL	MIT-07T-48	MIT-07T-24	MIT-07T-18	MIT-07T-12
OUTPUT VOLTAGE	48V	24V	18V	12V
OUTPUT CURRENT	0.5A	0.8A	1A	1A

MIT-07D 802.3af compliant injector (48V/0.35A)

MIT-07DT 802.3af compliant injector with surge/lightning protection on signal pairs

### Series Models:

MIT-07 : Standard injector (non-802.3af compliant)

MIT-07T : With surge protection (non-802.3af compliant)

MIT-07D : With detect function (802.3af compliant)

MIT-07DT : With detect function and surge protection (802.3af compliant)

## Application of POE ( Power over Ethernet )

