

FT-EMCU-1G-SM-SX-MINI-POE-KIT | FT-EMCU-1G-SM-DX-MINI-POE-KIT

PoE Unmanaged Industrial Media Converter Kit

Industrial PoE Media Converters are used for converting copper twisted pair Ethernet to fiber cable Ethernet in locations that are exposed to harsh industrial operating conditions, such as high or low temperatures. While converting copper to fiber is mostly used for an extended data transmission distance of a network, many deployments are done to eliminate EMI and RFI interference that can occur on a copper Ethernet as fiber optic cable is immune to EMI and RFI noise.

This kit contains two (2) PoE (Power over Ethernet), unmanaged 10/100/1000Base-TX/RX port media converters designed to transmit and receive 10/100/1000Mbps data over an Ethernet port. Units feature MDI/MDIX Full/ Half Duplex Auto-Negotiation, 10/100/1000Base Auto-sensing, and compatibility with major Network Protocols. The optical interfaces operate at a 1000Mbps Ethernet rate. Redundant ring and plug-and-play performance ensures ease of installation - no user electrical or optical adjustments are required. Features included are low power consumption LED indicators for monitoring equipment link, operating status activity, and auto-resettable voltage transient fuses. Additionally, they are designed with DIN Rail or Wall mount, are fan-less, and have a IP40 rated Aluminum enclosure. With a wide range 12- 55VDC input voltage, these units are outstanding products for Gigabit Ethernet signals in industrial Layer 2 Managed Network Installations.

Key Features

- 1X 1000Base-X SC Selectable Fiber Ports
- 1X10/100/1000Base-T Copper Ports
- Packet Forwarding Rate: 2.976Mpps
- Backplane Bandwidth: 4Gbps
- Network Standards: IEEE802.3

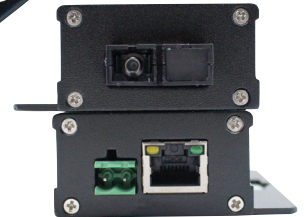
Models

FT-EMCU-1G-SM-SX-MINI-POE-KIT - Simplex Version

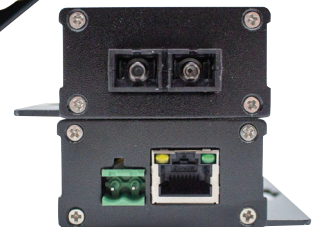
FT-EMCU-1G-SM-DX-MINI-POE-KIT- Duplex Version



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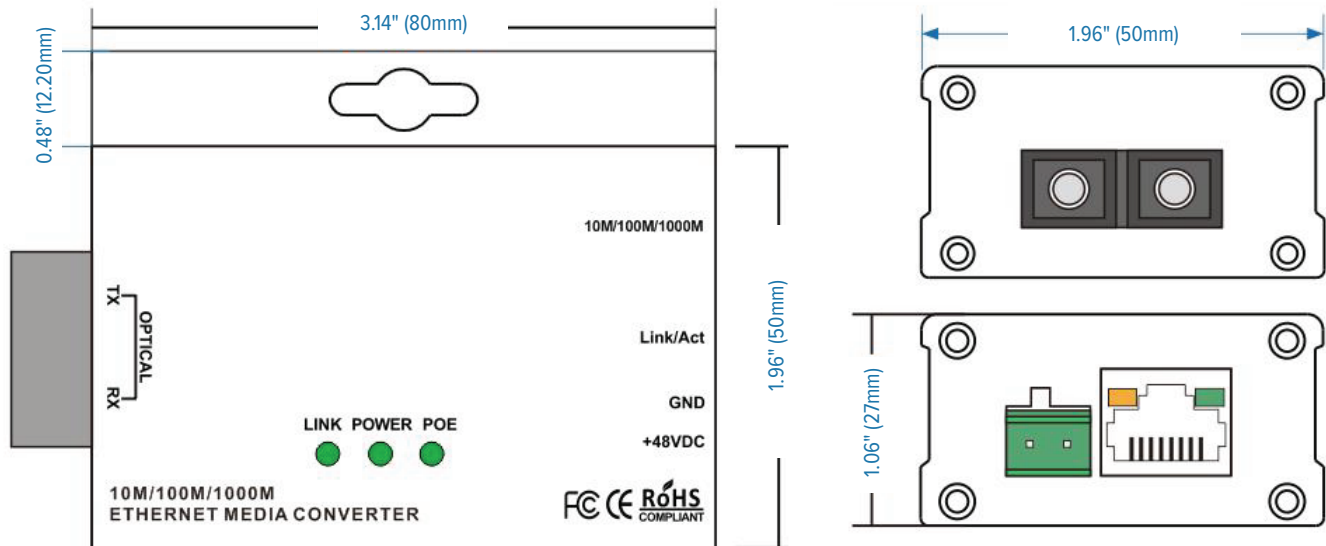


- 12V DC Input for non PoE/48V DC Input for PoE
- Operating Temp: -40 - 167°F (-40 - 75°C)
- Common Model 6KV Lightning Protection
- IP40 rate
- MTBF \geq 100,000 hrs

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Dimensions



Connectors

Optical	SC, One Single Fiber or Dual Fibers
Power	Terminal Block
Ethernet	RJ45

Interface

Fiber Port	1×1000 Base-X Fiber port
RJ45 Port	1×10/100/1000Base-T Copper Ports, support MDI/MDIX
LED	Power, SYSTEM, LINK/ACT

Optical Parameter

Fiber	Single-mode / Multimode
Wavelengths (MM)	1310/1550nm
Wavelengths (SM)	1310/1550nm

Power Parameter

Input	12V DC (non PoE)/48V DC (PoE)
Power	1.4W
Power Consumption	39W Max with PoE+; 9W Max w/o PoE+
Current Protection	Auto Resettable Solid – State Current Limiters
Power port	DC Adapter

Data

Data Interface	Ethernet
Data Rate	10/100/1000 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port / Full Duplex Optical Port

Mechanical Property

Case	Aluminum alloy, IP30 Rate
Dimension	3.27 x 1.968 x 1.02" (80.0 × 51.5 x 27.1 mm)
Weight	<1.3lbs. (600g)
Installation	Wall-mounted/Din-Rail selectable
Operating Temperature	-40 - 167°F (-40 - 75°C)
Storage Temperature	-49 - 203°F (-45 - 95°C)
Operating Humidity	5 - 95% (No condensation)
MTBF	> 100,000 hrs
Warranty	1-year Limited Warranty

Properties

Switching delay	≤1.372us
MAC address table	1K
Buffer	1Mb