

## FT-EMCU-1G-SM-SX-KIT | FT-EMCU-1G-SM-DX-KIT

### Unmanaged Media Converter Kit

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) unmanaged 10/100/1000Base-TX/RX port designed medias converters to transmit and receive 10/100/1000Mbps data over an SFP 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
- 5V DC Input
- Operating Temp: 32°F - 122°F (0°C - 50°C)
- MTBF ≥100,000hrs

### Models

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

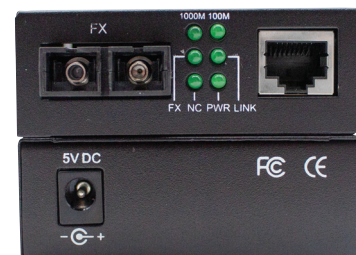
FT-EMCU-1G-SM-DX-KIT - Duplex Version



FT-EMCU-1G-SM-SX-KIT



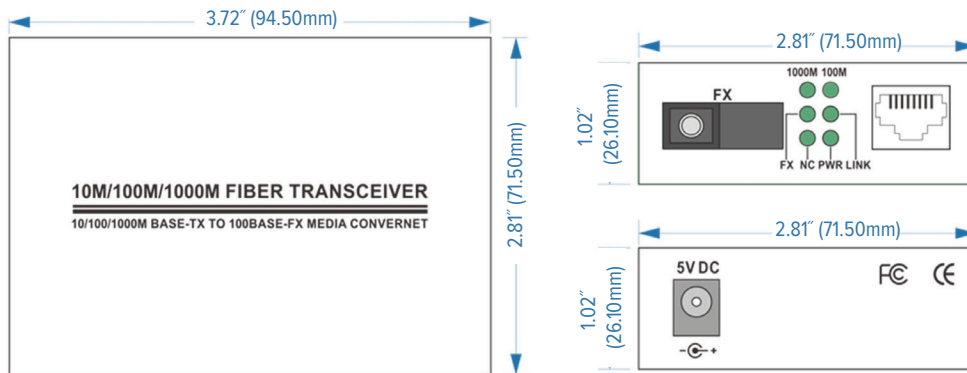
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## Unmanaged Media Converter Kit

### Dimensions



### Connectors

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

### Power Parameter

Input	5V DC
Power	1W
Power port	DC Adapter

### Optical Parameter

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

### Mechanical Property

Case	Aluminum alloy, IP30 Rate
Dimension	3.74 x 2.75 x 0.98" (95 x 70 x 25 mm)
Weight	0.44 lbs (0.20Kg)
Installation	Wall mount
Operating Temperature	32°F - 122°F (-0 - 50°C)
Storage Temperature	60°F - 167°F (20 - 75°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

### Interface

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