

Model EFM14 100BaseTX to 100BaseFX Auto Negotiating Media Converter



Overview

EFM14 100TX to 100FX auto-negotiating Media Converter is an exceptionally small, standalone unit, designed to allow the network designer to add fiber segments as needed.

Features

- Converts 100BaseTX to 100BaseFX and vice-versa.
- Allow for the introduction of a fiber segment.
- Greatly increase segment length, eliminate electro-magnetic interference, and offers protection from lightning.
- Multimode configuration standard, the optional single mode can increase fiber segment lengths from 2 km to 50 km.
- MDI/MDIX crossover switch on 100TX side of converter.
- Compact rugged steel enclosure.
- Auto Negotiation to 100TX
- Designed & Manufactured in the USA.

Description

EFM14, 100TX to 100FX media converter, is designed to meet the need to integrate the Fast Ethernet performance with the benefits of fiber segments. EFM14 complies with IEEE 802.3u standard. EFM14 generates fast link pulses to allow the link partner to auto-negotiate to full duplex on the copper segment. A complement of five LEDs display power for the unit plus link and receive on each segment. A wall mount 12 VDC power supply is supplied with the unit and is available for 110-240 VAC.

Unlike other manufactures who require that you purchase two different media converters to run either half or full duplex, EtherCom model EFM14 has user selectable switch to force the 100FX to half or full duplex. The 100BaseTX side of the unit features a MDI/MDIX crossover switch that dispenses with the any need for specially configured cables.

Technical Specifications: EFM14

Network Standards	Ethernet IEEE 802.3u
Speed	100 Mbps FX Half duplex/full duplex with user switch
100BaseFX Multimode	<i>Wavelength: 1300nm</i> <i>Optical Output Power: Min. -19dBm, Max. -4dBm</i> <i>Optical Input Power: Min. -30dBm, Max. -14dBm</i>
100BaseFX Single mode	<i>Wavelength: 1300nm</i> <i>Optical Output Power: Min. -15dBm, Max. -dBm</i> <i>Optical Input Power: Min. -34dBm, Max. -8dBm</i>
Power Requirements	<i>Input Voltage: 110-240 VAC, wall mount power supply</i> <i>Output Voltage:12V DC 1.0 amp</i>
LEDs	Total 5: 1 for power & 2 for each port displaying Link & Receive.
Weight	1 lb. (0.5kg) including power supply.
Dimensions	5.1" x 2.1" x 0.7" (12.95 cm x 5.8 cm x 1.52 cm)
Environmental	<i>Operating Temperature: 32 to 122F (0 to 50 C)</i> <i>Storage Temperature: -4 to 140F (-20 to 60 C)</i> <i>Relative Humidity: 5% to 90% (non-condensing)</i>
Connectors	1 Fully Shielded RJ45 Connector, choice of SC or ST Fiber Connector. External Power Module Connector.
Cabling	UTP Category 5, <i>maximum cable distance 100 meters.</i> <i>Fiber, maximum cable distance 2 km multimode, 50 km single mode</i>
EMI & Safety	EMI FCC Class A, CE
Warranty	5 years

Ordering Information, Ordering Hotline & Technical Support

Email: info@ethercom.com TEL: (510) 440 - 0242

EtherCom Model #	Description
EFM14-SC	Multimode 100BaseTX to 100BaseFX Converter with SC Connector
EFM14-ST	Multimode 100BaseTX to 100BaseFX Converter with ST Connector
EFM14-SM	Single mode 100BaseTX to 100BaseFX Converter (only with SC Connector)

Note: Indicate, when ordering, what type of power supply is required such as US, UK. or EU.



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