

EtherCom[®]

“The Connectivity Connection”

EMB11 10/100TX to 100FX Media Converter



Overview

EMB11, 10/100TX to 100FX auto-negotiating Media Converter is an exceptionally small, standalone, US made unit, designed to allow the network designer to add fiber segments as needed to 10 Mbps or 100 Mbps Ethernet network.

Features

- Converts 10/100TX to 100FX and vice-versa.
- Allow for the introduction of a fiber segment to copper network.
- 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.
- Compact rugged steel enclosure.
- Auto Negotiation to 10BaseT or 100TX
- Designed & Manufactured in the USA.

Description

EMB11, 10/100TX to 100FX media converter, is designed to meet the need to integrate the Fast Ethernet performance with the benefits of fiber segments. EMB11 complies with IEEE 802.3u standard. EMB11 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 EMB11 has user selectable switch to force the 100FX to half or full duplex. The 10/100TX side is MDI/MDIX that dispenses with the any need for specially configured UTP cables.

Technical Specifications: EMB11

Network Standards	Ethernet IEEE 802.3u
Speed	100 Mbps fiber half duplex/full duplex with user selector switch. 10 Mbps & 100 Mbps auto-negotiating on copper.
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
EMB11-SC	Multimode 100BaseTX to 100BaseFX Converter with SC Connector
EMB11-ST	Multimode 100BaseTX to 100BaseFX Converter with ST Connector
EMB11-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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