



"The Connectivity Connection"

1409 Fulton Place, Fremont, CA 94539, USA

## ERM12N 100BaseTX to 100BaseFX Media Converter Card



### Overview

Model ERM12N, 100BaseTX to 100BaseFX media converter card, is designed to allow the network designer to add fiber segments as needed. It is designed to fit into ERM21C, 21 slot chassis.

### Features & Benefits

- Converts 100BaseTX to 100BaseFX and vice-versa.
- Allows for the introduction of a fiber segment to: 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 switch on 100BaseTX side of converter.
- Compact rugged steel faceplate.
- Half duplex/full duplex.
- Designed & manufactured in the USA.

### Description

ERM12, 100BaseTX to 100BaseFX media converter, allows 100BaseTX specifications to be used over fiber cable.

Designed to meet the needs of today's network planners to marry the Fast Ethernet performance with the benefits of fiber segments, The ERM12 media converter complies with the 100BaseTX 802.3u standard.

A complement of 6 LEDs display power for the unit plus link and receive on each segment.

The 100BaseTX side of the unit features a MDI/MDIX crossover switch that dispenses with the any need for specially configured cables.

## Technical Specifications

> <b>Network Standards</b>	Ethernet IEEE 802.3u
> <b>Speed</b>	100 Mbps
> <b>100BaseFX Multimode</b>	<b>Wavelength:</b> 1300nm <b>Optical Output Power:</b> Min. -19dBm, Max. -14dBm <b>Optical Input Power:</b> Min. -30dBm, Max. -14dBm <b>SC or ST Connector</b>
> <b>100BaseFX Single mode</b>	<b>Wavelength:</b> 1300nm <b>Optical Output Power:</b> Min. -15dBm, Max. -8dBm <b>Optical Input Power:</b> Min. -34dBm, Max. -8dBm <b>SC Connector</b>
> <b>Power Requirements</b>	<b>Input Voltage:</b> 5Vdc supplied from 4 pin connector on the ERM21C chassis bscplane.
> <b>LEDs</b>	Total 6: 1 for power & 2 for each port displaying Link & Receive, and Error.
> <b>Weight</b>	0.5 lb
> <b>Dimensions</b>	3.3" x 2.1" x 0.75" (85 mm x 52.35 mm x 19.2 mm)
> <b>Environmental</b>	<b>Operating Temperature:</b> 14 to 131F (-10 to 55 C) <b>Storage Temperature:</b> -4 to 140F (-20 to 60 C) <b>Relative Humidity:</b> 5% to 90% (non-condensing)
> <b>Connectors</b>	1 Fully Shielded RJ45 Connector, choice of SC or ST Fiber Connector.
> <b>Cabling</b>	UTP Category 5, maximum cable distance 100 meters. Fiber, maximum cable distance 2 Km multimode, 50 Km single mode
> <b>Environmental &amp; Safety</b>	FCC Class A, <b>CE</b>
> <b>Warranty</b>	5 years

## Ordering Information

<b>ERM12N-SC</b>	Multimode 100BaseTX to 100BaseFX Converter with SC Connector
<b>ERM12N-ST</b>	Multimode 100BaseTX to 100BaseFX Converter with ST Connector
<b>ERM12N-SM</b>	Single mode 100BaseTX to 100BaseFX Converter (only with SC Connector)

Ordering Hotline & Technical Support - TEL: (510) 440 - 0242 [info@ethercom.com](mailto:info@ethercom.com)



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