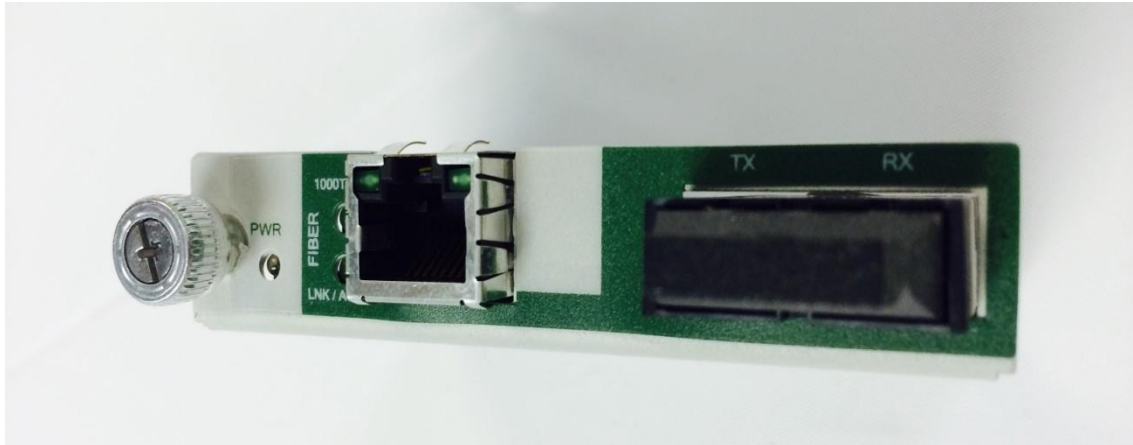




"The Connectivity Connection"

1409 Fulton Place, Fremont, CA 94539, USA

ERMG102, 10/100/1000TX to 1000FX Micro Switch / Media Converter Card



Overview

Designed to be installed in ERM21C, 21 slot chassis, ERMG102 is a layer 2 GigE Micro Switch that converts 10BaseT or 100BaseTX or 1000BaseTX to 1000BaseFX. It operates at full wire speed without collisions or packet discards. The RJ45 port will auto negotiate to 10Mbps, 100Mbps, or 1000 Mbps, full or half duplex. The ERMG102 allows you to add fiber segments to an existing copper network. These fiber segments can be up to 0.5 kilometers with multi-mode, and 10 kilometers with single-mode. Fiber segments eliminate electro-magnetic interference and offer protection from lightning and electronic eavesdropping.

Features

- Converts 10/100/1000TX to 1000FX 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 0.5 km to 10 km.
- MDI/MDIX.
- Compact rugged steel faceplate.
- Auto Negotiation 10/100/1000TX
- Designed & Manufactured in the USA.

Description

ERMG102, 10/100/1000TX to 1000FX media converter, is designed to meet the need to integrate the gigabit Ethernet performance with the benefits of fiber segments. ERMG102 complies with IEEE 802.3ab standard. ERMG102 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 card, link and receive on each segment.

ERMG102 TECHNICAL SPECIFICATIONS

Network Standard	Ethernet IEEE 802.3 ab, u, 3x	
Speed	10/100/1000 Mbps	Half or Full Duplex Auto Negotiation on copper port. Full duplex 1000FX.
Power Requirement	<i>Input Voltage:</i>	5Vdc @ 500 mA from ERM21C chassis backplane.
LEDs	Total 8	1 for Power . 10/100/1000 port has 2: 1000TX Speed and Link/Activity . 1000FX port: has 2: GigE and Link/Activity
Connectors	Total 3	RJ45 for 10/100/1000TX Port. SC or ST for GigE fiber.
MAC addresses	Look up engine 1k	Automatic learning, address aging & address migration
Bandwidth	16 Gbps memory	Wire speed reception & transmission
Weight	0.5 lbs	0.25 kg
Dimensions	3.3" x 2.1" x 0.75"	85 mm x 52.35 mm x 19.2 mm
Environmental	<i>Operating Temperature</i> <i>Storage Temperature</i> <i>Relative Humidity</i>	14 to 131°F (-10 to 55° C) -4 to 140°F (-20 to 60° C) 5% to 90% (non-condensing)
Cabling	UTP Category 5e, <i>maximum cable distance</i> 100 m. Fiber multi-mode, <i>maximum cable distance</i> 0.5 km.	
Regulatory & Safety	EMI FCC Class A, CE	
Warranty	5 years	

Ordering information:

ERMG102-SX, 10/100/1000TX to 1000SX, Multimode SC Fiber Connector
ERMG102-LX, 10/100/1000TX to 1000LX, Single mode SC Fiber Connector

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