DE7200M Series

IFS 10/100 Mbps Ethernet Mini 2 Port Media Converter

Overview

The IFS DE7200M Series Ethernet 2 port media converter is designed to transmit and receive 10/100 Mbps data over multimode or single mode optical fiber. The IFS DE7200M Series will function as a 10 Mbps Ethernet link, or as a 100 Mbps Ethernet link without any adjustments. The DE7200M Series is environmentally hardened to operate in extreme temperatures. Status indicating LED's for power and data rate are present at the RJ-45 connector. At the fiber optic transceiver end, link and data LEDs provide operational status. Plug-and-play design ensures ease of installation requiring no optical adjustments. The modules are available in stand-alone only.

Application Examples

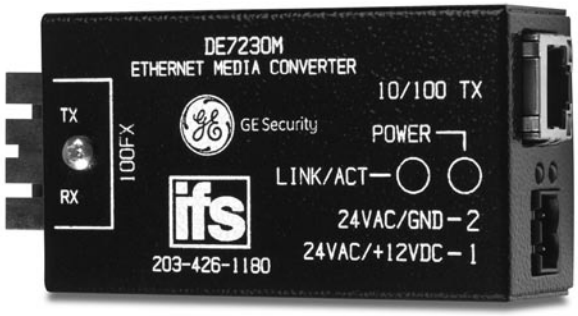
- 10/100 Mbps Ethernet
- High Speed Computer Links

Standard Features

- 10/100 Mbps Ethernet
  - 100 FX Optical Port
  - 10/100 Selectable
  - Full Duplex or Half Duplex Data
- Supports Auto MDI/MDI-X
- Distances up to 45 km (28 miles)
- NTCIP Compatible
- Designed to Meet Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Multimode and Single Mode Versions Available
- SC Optical Connectors Standard
- No In-field Electrical or Optical Adjustments Required
- Power, Transmit and Receive Data Status LED Indicators
- IEEE 802.3 Compliant
- Comprehensive Lifetime Warranty

10/100 Mbps Ethernet Mini 2 Port Media Converter

Designed to transmit and receive 10/100 Mbps data over multimode or single mode fiber.

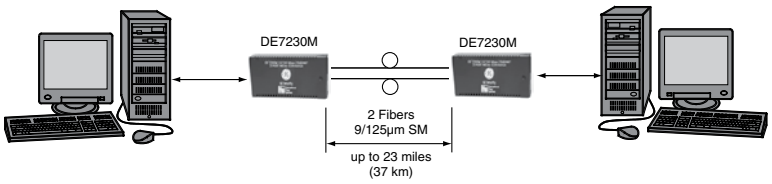


Specifications

Data	
Data Interface:	Ethernet
Data Rate:	10/100 Mbps, IEEE 802.3 Compliant
Operating Mode:	Full-Duplex or Half-Duplex
Wavelength	DE7210M: 1310 nm, MM DE7210MWDM: 1310/1550 nm, MM DE7230M: 1310 nm, Single Mode
Number of fibers	1 or 2
Connectors	
Power:	Terminal Block with Screw Clamps
Optical:	SC
Data:	RJ-45
Electrical & Mechanical	
Power:	24 VAC @ 110 mA 12 VDC @ 200 mA
Voltage Regulation:	Solid-State; independent on each board
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	1.0 x 2.0 x 3.5 in., 2.5 x 5.1 x 8.9 cm
Shipping Weight:	< 2 lbs./0.9 kg
Environmental	
MTBF:	> 100,000 hours
Operating Temp:	-40° C to +74° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '–C' to model number for conformal coating.

System Design



Ordering Information

	Part Number	Description	Fibers Required	Opt. Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	DE7210M	10/100 Mbps Ethernet (1310 nm)	2	10 dB	1.2 miles (2 km)
	DE7210M-WDMA	10/100 Mbps Ethernet (1310/1550 nm)	1	8 dB	
	DE7210M-WDMB	10/100 Mbps Ethernet (1550/1310 nm)	1	8 dB	
Single Mode 9/125µm	DE7230M	10/100 Mbps Ethernet (1310 nm)	1	15 dB	23 miles (37 km)
Accessories♦	PS-12VDC 12 Volt DC Plug-in Power Supply (Included) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
Options	Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

* Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
Distance can also be limited by fiber bandwidth. ** For 50/125 Fiber, subtract 4 dB from Optical Power Budget. ♦All accessories are third party manufactured.