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

SYSTEM DESIGN

DE7230M

DE7230M

2 Fibers
9/125µm SM

up to 23 miles
(37 km)
DE7200M Series
IFS 10/100 Mbps Ethernet Mini 2 Port Media Converter

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Fibers Required</th>
<th>Optical Pwr. Budget</th>
<th>Max. Distance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1010</td>
<td>850 nm, MM</td>
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<td></td>
<td></td>
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<tr>
<td>D1010WDMA</td>
<td>850/1310 nm, MM</td>
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</tbody>
</table>

All accessories are third party manufactured.

*Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.

**For 50/125 Fiber, subtract 4 dB from Optical Power Budget.

♦ All accessories are third party manufactured.

DE7200M Series

Electrical

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): 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)

Agency Compliance

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

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Specifications subject to change without notice.

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