FEATURES

- 10/100 Mbps Ethernet
  - Auto-Negotiating
  - 10/100 Selectable
  - Full Duplex or Half Duplex Data
- Auto Network Detection MDI/MDI-X
- Distances up to 45 km (28 miles)
- NTCIP Compatible
- Multimode and Singlemode Versions Available
- ST Optical Connectors Standard
- No In-field Electrical or Optical Adjustments Required
- Power, Transmit and Receive Data Status LED Indicators
- Hot-Swappable Rack Modules
- IEEE 802.3 Compliant
- Comprehensive Lifetime Warranty

APPLICATION EXAMPLES

- 10/100 Mbps Ethernet
- High Speed Computer Links

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>MULTIMODE</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>62.5/125µm*</td>
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<tr>
<td>D7120</td>
<td>10/100 Mbps Ethernet (1310 nm)</td>
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<tr>
<td>D7120WDMA*</td>
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<td>1</td>
<td>10 dB</td>
<td>6.2 miles (10 km)</td>
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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 ‘-R3’ to Model Number for R3 Rack Mount (Requires R3 Rack purchased separately)
- 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. * WDMA must mate with a WDMB.

** All accessories are third party manufactured.
TECHNICAL SPECIFICATION

D7100 SERIES

10/100 Mbps ETHERNET OPTICAL TRANSCEIVER

SPECIFICATIONS

DATA

Data Interface: Ethernet
Data Rate: 10/100 Mbps
IEEE 802.3 Compliant
Full Duplex or Half Duplex

WAVELENGTH

D7120 1310 nm, Multimode
D7120WDM 1310/1550 nm, Multimode
D7130WDM 1310/1550 nm, Singlemode

MAX. DISTANCE*

6.2 miles (10 km)
28 miles (45 km)

NUMBER OF FIBERS

1 or 2

CONNECTORS

Optical: ST
Power: Terminal Plug with screw clamps
Data: RJ-45

WAVELENGTH SYSTEM DESIGN

DATA INTERFACE: Ethernet
Data Rate: 10/100 Mbps
IEEE 802.3 Compliant
Full Duplex or Half Duplex

ELECTRICAL & MECHANICAL

Power:
Surface Mount: 12 VDC @ 200 mA
Rack: From Rack
Number of Rack Slots: 2
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: 7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm.
Rack Mount: 7.7 x 5.0 x 2.0 in., 19.6 x 12.7 x 5 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.

OPTICAL POWER BUDGET

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SYSTEM DESIGN

Due to our continued effort to advance technology, product specifications are subject to change without notice.

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