The ComNet™ Ethernet internal mounted media converters are designed to transmit and receive 10/100 Mbps data over multimode or single mode optical fiber. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. These media converters are environmentally hardened to operate in extreme temperatures. LED indicators are provided for rapidly ascertaining equipment operating status. The CNFE1/X do not have a metal enclosure and are designed to be incorporated within a device.

FEATURES

- 10/100 Mbps Ethernet
  - 10/100 BASE-T/TX electrical port
  - 100 BASE-FX optical port
- IEEE 802.3 compliant
- Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.
- Optical port supports 100 Mbps full duplex data
- Automatic MDI/MDI-X crossover
- Distances up to: 3 km (2 miles) Multimode
  - 20 km (12 miles) Single Mode
- ST or SC optical connectors
- 1 or 2 fiber design
- No in-field optical adjustments required
- LED Indicators
- Lifetime Warranty

APPLICATIONS

- 10/100 Mbps Ethernet Media Converter
- High Speed Computer Links
- Direct Fiber Optic Interface for IP Camera
CNFE1(M,S)/(X) SERIES

10/100 Mbps Ethernet Electrical To Optical Media Converter for Internal Mounting

SPECIFICATIONS

Data

- **Data Interface**: Ethernet
- **Data Rate**: 10/100 Mbps
- **IEEE 802.3 Compliant**: Full or Half Duplex Electrical Port
- **Full Duplex Optical Port**:

Connectors

- **Optical**: ST or SC, 1 or 2 Fibers
- **Power**: Screw Terminals
- **Electrical**: RJ45

LED Indicators

- **Optical Link/Data Activity**
- **Power**

Power

- **Operating Voltage Range**: 22-27 VAC or 8-24 VDC
- **Power Consumption**: 3W AC or 6W VDC

Electrical & Mechanical

- **Circuit Board**: Meets IPC Standard
- **Size (L×W×H)**: 1.9 × 1.9 × 1.1 in, (5 × 5 × 2.8 cm)
- **Shipping Weight**: <1 lbs./0.9 kg
- **Mounting Hardware (Not Included)**
  - **Screw Size**: 2.5 mm
  - **Min. Standoff Height**: 8 mm
  - **SAE requirements**: #2-56 × 3/16" long Nylon Pan Head Screw as a minimum into a 3/16" Nylon Hex Standoff that is #2-56 thread × 3/8" long minimum
- **Environmental**
  - **MTBF**: > 100,000 hours
  - **Operating Temp**: -40˚ C to +75˚ C
  - **Storage Temp**: -40˚ C to +85˚ C
  - **Relative Humidity**: 0% to 95% (non-condensing)\(^1\)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Connector</th>
<th>Fibers Required</th>
<th>Fiber</th>
<th>Optical Power Budget</th>
<th>Maximum Distance</th>
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<tr>
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<td>10/100 Mbps Ethernet 1310/1550nm</td>
<td>ST</td>
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<td>Multimode</td>
<td>10 dB</td>
<td>3 km (2 miles)</td>
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</tr>
</tbody>
</table>

Options

- **DC Plug-in Power Supply (not included)**
- [1]Add suffix ‘/C’ for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)
- **Mounting Hardware (not included)**

TYPICAL APPLICATION

![E < CNFE1M1A/2 < CNFE1M1B/2 < E](image)

- **OPTICAL FIBER**
- **CAT5e**