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

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)

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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<td>10/100 Mbps Ethernet 1310/1550nm</td>
<td>ST</td>
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<td>Multimode</td>
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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

1 Fiber

Low Power Consumption

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