The ComNet CNFE2MCPOE[2,M] Ethernet media converter is designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP* modules. These models require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. The CNFE2MCPOE[2,M] transmits and receives a single channel of Ethernet data. It also supports IEEE 802.3at as Power Sourcing Equipment (PSE) with up to 30 Watts @ 48VDC. 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. It is environmentally hardened to operate in extreme conditions.

FEATURES

› 10/100 Mbps Ethernet
  • 10/100 BASE-T/TX electrical port
  • 100 BASE-FX optical port

› Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.

› Power over Ethernet (PoE) 30W@48VDC (not supported on CNFE2MCPOE when mounted within ComNet rack)

› Optical port supports 100 Mbps full duplex data

› Automatic MDI/MDI-X crossover

› Distances up to 80 km with optional SFPs

› 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.

› Uses interchangeable SFP for fiber type, distance and connector (Ordered separately)

› Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events.

› No in-field optical adjustments required

› LED Indicators

› IEEE 802.3 compliant

› Lifetime Warranty

APPLICATIONS

› 10/100 Mbps Ethernet Media Converter

› High Speed Computer Links

› PoE Power Source

* Small Form-Factor Pluggable Module. Sold separately.
## SPECIFICATIONS

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

### Fibers¹
- SFP Dependent

### Connectors
- **Optical:** Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules
- **Power:** Terminal Block
- **Electrical:** RJ45

### PoE pin assignment
- RJ45 port #1 supports IEEE802.3at
- End-point Positive (VCC+): RJ45 pin 1, 2
- Negative (VCC-): RJ45 pin 3, 6
- Data (1, 2, 3, 6)

### Max. PoE current
- 600mA continuous

### LED Indicators
- Optical Link/Data Activity, Power, PSE

### Electrical & Mechanical
- **Power:** 12VDC @ 3A, 24VDC@1.5A
- **Current Protection:** Automatic Resettable
- **Solid-State Current Limiters:** Meets IPC Standard
- **Circuit Board:** ComFit 6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
- **Size:** Mini: 4.1 × 3.7 × 1.1 in (10.4 × 9.4 × 2.8 cm)
- **Shipping Weight:** <2 lb / 0.9 kg

### Environmental
- **MTBF:** >100,000 hours
- **Operating Temp:** -40° C to +75° C
- **Storage Temp:** -40° C to +85° C
- **Relative Humidity:** 5% to 95%

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFE2MCPOE</td>
<td>ComFit 10/100 Mbps Ethernet Media Converter with PoE</td>
</tr>
<tr>
<td>CNFE2MCPOE2</td>
<td>ComFit 10/100 Mbps Ethernet Media Converter with PoE, and 2 DIP switch operation (POE and Fiber Link control)</td>
</tr>
<tr>
<td>CNFE2MCPOE/M</td>
<td>Mini 10/100 Mbps Ethernet Media Converter with PoE</td>
</tr>
</tbody>
</table>

**Included Accessories:**
- 24 Volt DC 1.5 Amp Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included, for benign 0° to 50°C applications only. Hardened power supply available, consult factory)

**Options**
- [2] Add suffix ‘/C’ for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.