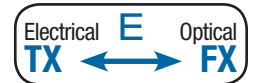
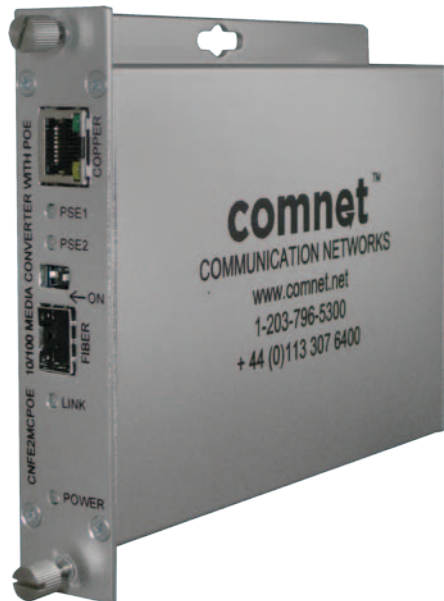


10/100 Mbps Ethernet Electrical to SFP optical media converter with Power over Ethernet



Description

The ComNet™ CNFE2MCPOE 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 transmits and receives a single channel of Ethernet data. It also supports IEEE 802.3at Class 1 – 4 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. LED indicators are provided for confirming equipment operating status.

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.
- IEEE802.3at Class 1 – 4 Power over Ethernet (POE) 30W@48VDC
- 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 unconditional 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

(SFP) = Small Form-Factor Pluggable Module



specifications

DATA

Data Interface:
Data Rate:

Ethernet
10/100 Mbps
IEEE 802.3 Compliant
Full Duplex or Half Duplex Electrical
Port/Full Duplex Optical Port

FIBERS*

SFP Dependent

FIBER CONNECTORS

Requires selection of sold-separately
SFP modules. See ComNet data sheet
for number and description of SFP
modules

CONNECTORS

Power:
Electrical:

Terminal Block
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:

Surface Mount:

Current Protection:

12VDC@3A, 24VDC@1.5A

Automatic Resettable

Solid-State Current Limiters

Meets IPC Standard

Circuit Board:

Size (in./cm) (L×W×H)

Standard Size

6.1 x 5.3 x 1.1 in.,
(15.5 x 13.5 x 2.8 cm)

Shipping Weight:

<2 lbs./0.9 kg

ENVIRONMENTAL

MTBF:

Operating Temp:

>100,000 hours

-40° C to +75° C @ 15W

-40° C to 50° C @ 30W

-40° C to +85° C

Storage Temp:

Relative Humidity:

0% to 95% (non-condensing)[†]

* Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode
fiber needs to meet or exceed fiber standard ITU-T G.652

[†] May be extended to condensation conditions

AGENCY COMPLIANCE



MADE IN THE
USA

PART NUMBER	DESCRIPTION
CNFE2MCPOE	ComFit 2 Port 10/100 Mbps Ethernet Media Converter with POE
Accessories	24 Volt DC 2 Amp Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)
Options	Add suffix 'C' for Conformally Coated Circuit Boards (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.