75° −40°	POWER SUPPLY	TX ↔ FX ELECTRICAL TO OPTICAL	ETHERNET
HARDENED	AC OR DC	CONVERTER	1 OR 2 CH

The ComNet™ Ethernet media converters are designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP options. The CNFE2MC[AC][/M] transmits and receives a single channel of Ethernet data and the CNFE22MC transmits and receives two independent channels in one unit. Both are environmentally hardened to operate in extreme temperatures. Packaged in the exclusive ComNet ComFit housing, the CNFE2MC and CNFE22MC units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate. The small-size CNFE2MC/M is available for either AC or DC power.

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.

› 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 modules for fiber type, distance and connector

› 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

› CNFE2MC and CNFE22MC are hot-swappable rack modules

› CNFE2MC and CNFE22MC are interchangeable between stand-alone or rack mount use – ComFit

› LED indicators provided for confirming equipment operating status

› IEEE 802.3 compliant

› Lifetime Warranty

APPLICATIONS

› 10/100 Mbps Ethernet Media Converter

› High-Performance Computer Links

* 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

Fibers[1]

SFP Dependent

Fiber Connectors

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

Connectors

Power	Terminal Block
Electrical	RJ45

LED Indicators

- Optical Link/Data Activity
- Power

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   c UL us E322911   RoHS COMPLIANT   C N24621   ⌧

MADE IN THE USA

Power

Operating Voltage Range	8-15 VDC (CNFE2MCAC/M: 24VAC)
Power Consumption	4W (CNFE2MCAC/M: 3W)

Electrical & Mechanical

Number of Rack Slots	1
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	
CNFE2MC, CNFE22MC	6.1 x 5.3 x 1.1 in (15.5 x 13.5 x 2.8 cm)
CNFE2MCM	3.3 x 2.5 x 1.1 in (8.4 x 6.4 x 2.8 cm)
Shipping Weight	<2 lbs./0.9 kg

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)[2]

[1] 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
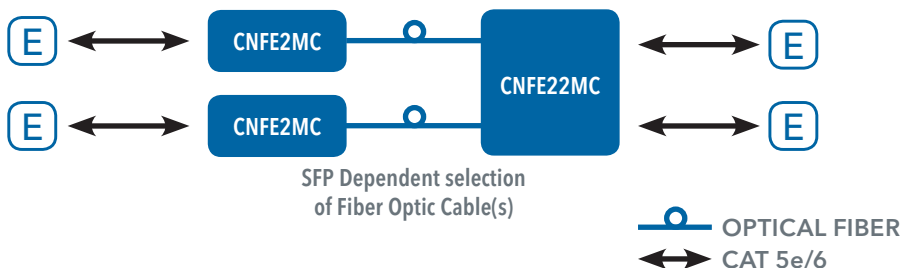
ORDERING INFORMATION

Part Number	Description
CNFE2MC	ComFit 10/100 Mbps Ethernet Media Converter
CNFE22MC	ComFit 2 Channel 10/100 Mbps Ethernet Media Converter
CNFE2MC-M	Small-size 10/100 Mbps Ethernet Media Converter
CNFE2MCAC/M	Small-size 10/100 Mbps Ethernet Media Converter with AC power
Accessories	DC Plug-in Power Supply, 90-264 VAC, 50–60 Hz (Included)
Options	[2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit - With Mounting Hardware (Optional, order model DINBKT1)

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.

TYPICAL APPLICATION

SFP Dependent selection of Fiber Optic Cable(s)

——○—— OPTICAL FIBER
◄——► CAT 5e/6

🍃 Low Power Consumption

26 Sep 2013