



The ComNet™ CNFE2MC2C[/M] Ethernet media converter is designed to transmit and receive 10/100 Mbps data and two bi-directional contact closures over multimode or single mode optical fiber using sold-separately SFP* modules to select distance and connector type. 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. The CNFE2MC2C/M small package size is ideal for locations where space is at a premium. Packaged in the exclusive ComNet ComFit housing, the full size CNFE2MC2C may be rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

FEATURES

- › 10/100 Mbps Ethernet
 - 10/100 BASE-T/TX electrical port
 - 100 BASE-FX optical port
- › Two Bi-Directional Contacts
- › 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 for fiber type, distance and connector (ordered separately)
- › 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.
- › 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

- › Access Control Systems
- › Building and Environmental Control Systems
- › Tamper Switch
- › 10/100 Mbps Ethernet Media Converter
- › High Speed Computer Links
- › Dry contacts

* SFP = Small Form-Factor Pluggable Module

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

Contacts

Response Time	25 msec typical, network dependent
Input/Output Channels	2
Inputs	Dry Closure
Output Rating	0 – 36V, 190mA (AC or DC)

Connectors¹

Power	Terminal Block
Optical	LC or SC (SFP dependent)
Ethernet	RJ45
Contact Closure	Terminal Block SFP Dependent

Fibers¹

Fiber Connectors:

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

LED Indicators:

- Optical Link/Data Activity - Power
- Loss Of Link - Contacts In/Out

Power

Operating Voltage Range	8 to 24 VDC CNFE2MC2C/M: 22 to 27 VAC
Power Consumption	8W
Current Draw	320mA

Electrical & Mechanical

Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
CNFE2MC2C Size	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
CNFE2MC2C/M Size	4.1 × 3.7 × 1.1 in (10.4 × 9.5 × 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	Maximum Distance
CNFE2MC2C/M	Small Size 10/100 Mbps Ethernet Media Converter	See SFP Modules data sheet for optional distances, fiber type and connector type.
CNFE2MC2C	ComFit 10/100 Mbps Ethernet Media Converter	See SFP Modules data sheet for optional distances, fiber type and connector type.
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

