



The ComNet™ CNFE1002MAC1M Ethernet 2 port media converters are designed to transmit and receive 10/100 Mbps data over multimode 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.

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 3 km (2 miles)
- › Transparent to data encoding/compatible with major data protocols
- › 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.

- › AC powered models
- › 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

** 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 Fiber

Connectors

Optical	ST
Power	Terminal Block
Electrical	RJ45

Indicating LEDs

- Optical Link/Data Activity
- Electrical Link/Data Activity
- Power

Power

Operating Voltage	22 to 27 VAC
Power Consumption	3 W max

Electrical & Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size (in./cm) (L×W×H)	3.3 × 2.5 × 1.1 in (8.4 × 6.4 × 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) ¹



INCLUDED IN KIT

Part Number	Wavelength	Connector	Fibers Required	Fiber	Optical Pwr Budget	Max. Distance
CNFE1002MAC1A-M	10/100 Mbps Ethernet (1310 nm)	ST	1	Multimode	10 dB	3 km (2 mi)
CNFE1002MAC1B-M	10/100 Mbps Ethernet (1550 nm)	ST	1	Multimode	10 dB	3 km (2 mi)
Accessories	DC Plug in Power Supply, 90-264VAC, 50/60Hz (Included)					
Options	[1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)					

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

