

10/100 Mbps Ethernet 2 port media converter
1 Channel: Electrical ↔ Optical



Description

The ComNet™ CNFE1002MAC1-M 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. LED indicators are provided for rapidly ascertaining 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.
- 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



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

LED INDICATORS

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

ELECTRICAL & MECHANICAL

Power:
Mini AC/DC: 22-27 VAC @ 100mA or
8-24 VDC @ 220 mA
Current Protection: Automatic Resettable
Solid-State Current Limiters
Meets IPC Standard
Circuit Board:
Size (in./cm) (L×W×H) :
CNFE1002MAC1M: 3.3 × 2.5 × 1.1 in.,
(8.4 × 6.4 × 2.8 cm)
Shipping Weight: <2 lbs./0.9 kg

ENVIRONMENTAL

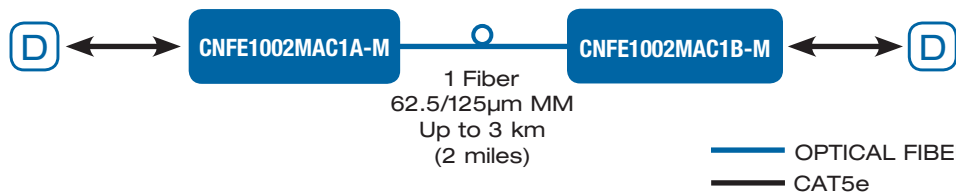
MTBF: >100,000 hours
Operating Temp: -40° C to +75° C
Storage Temp: -40° C to +85° C
Relative Humidity: 0% to 95% (non-condensing)[†]

[†] May be extended to condensation conditions



PART NUMBER	WAVELENGTH	CONNECTOR	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE	# RACK SLOTS
CNFE1002MAC1A-M	10/100 Mbps Ethernet (1310 nm)	ST	1	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1002MAC1B-M	10/100 Mbps Ethernet (1550 nm)	ST	1	Multimode	10 dB	3 km (2 miles)	N/A
Accessories	9 Volt DC 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.



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