

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



Description

The ComNet™ CNFE1003(M)(S)2-Mini Series Ethernet 2 port media converter is designed to transmit and receive 10/100 Mbps data over 2 multimode or single mode optical fibers. The CNFE1003(M)(S)2-Mini 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. The CNFE1003(M)(S)2-Mini is environmentally hardened to operate in extreme temperatures. LED indicators are provided for rapidly ascertaining equipment operating status.

Applications

- 10/100 Mbps Ethernet Media Converter
- High Speed Computer Links

PART NUMBER	FIBERS REQUIRED	FIBER
CNFE1003M2-Mini	2	Multimode 62.5/125µm
CNFE1003S2-Mini	2	Single Mode 9/125µm

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 37 km (23 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. (In Process)
- SC optical connectors standard
- 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

specifications

DATA

Data Interface: Ethernet
Data Rate: 10/100 Mbps
IEEE 802.3 Compliant
Full Duplex or Half Duplex Electrical Ports/
Full Duplex Optical Port

WAVELENGTH

CNFE1003M2-Mini 1310 nm, Multimode
CNFE1003S2-Mini 1310 nm, Single Mode

FIBERS

2

CONNECTORS

Optical: SC (standard)
Power: Terminal Block
Electrical: RJ-45

LED INDICATORS*

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

* LEDs: RED = "No Activity"
GRN = "Activity"

NOTE: RED DOES NOT MEAN "Error"

ELECTRICAL & MECHANICAL

Power: 8-15 VDC @ 220 mA
Surface Mount: N/A
Rack Mount: N/A
Number of Rack Slots: N/A
Current Protection: Automatic Resettable
Solid-State Current Limiters
Meets IPC Standard
Circuit Board: 3.3 x 2.5 x 1.1 in.,
Size (in./cm) (LxWxH) (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)†

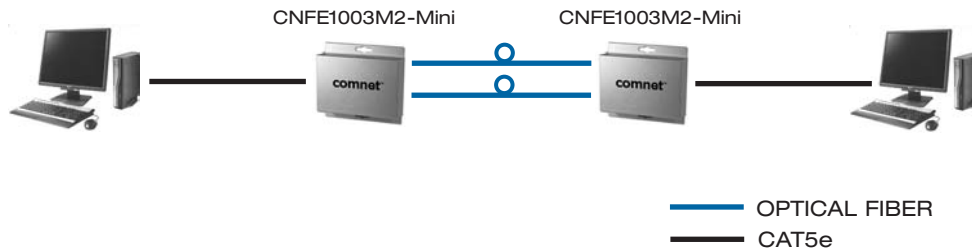
† May be extended to condensation conditions

AGENCY COMPLIANCE



PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE	# RACK SLOTS
CNFE1003M2-Mini	10/100 Mbps Ethernet (1310 nm)	2	Multimode 62.5/125µm	10 dB	3 km (1.9 miles)	NA
CNFE1003S2-Mini	10/100 Mbps Ethernet (1310 nm)		Single Mode 9/125µm	15 dB	37 km (23 miles)	
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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