

10/100 Mbps Ethernet Electrical ↔ Optical media converter for internal mounting





Description

The ComNet™ Ethernet internal mounted media converters are designed to transmit and receive 10/100 Mbps data over multimode or single mode 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. The CNFE1/X do not have a metal enclosure and are designed to be incorporated within a device.

Applications

- 10/100 Mbps Ethernet Media Converter
- High Speed Computer Links
- Direct Fiber Optic Interface for IP Camera

Features

- 10/100 Mbps Ethernet
- 10/100 BASE-T/TX electrical port
- 100 BASE-FX optical port
- IEEE 802.3 compliant
- 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) Multimode 20 km (12 miles) Single Mode
- ST or SC optical connectors
- 1 or 2 fiber design
- No in-field optical adjustments required
- LED Indicators
- Lifetime Warranty

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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

CONNECTORS

Optical: ST or SC, 1 or 2 Fibers
Power: Screw Terminals

Electrical: RJ45

LED INDICATORS - Optical Link/Data Activity

- Power

ELECTRICAL & MECHANICAL

Power: 22-27 VAC @ 100mA or 8-24 VDC @ 220 mA

Circuit Board: Meets IPC Standard Size (in./cm) (L×W×H): $1.9 \times 1.9 \times 1.1$ in., $(5 \times 5 \times 2.8$ cm)

Shipping Weight: <1 lbs./0.9 kg

ENVIRONMENTAL

MTBF: >100,000 hours Operating Temp: -40° C to $+75^{\circ}$ C Storage Temp: -40° C to $+85^{\circ}$ C

Relative Humidity: 0% to 95% (non-condensing)[†]

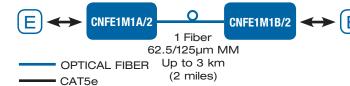
MOUNTING

(Mounting Hardware not included)

Screw Size: 2.5mm
Minimum Standoff Height: 8mm or longer

Where SAE is required: #2-56 \times 3/16" long Nylon Pan Head

Screw as a minimum into a 3/16" Nylon Hex Standoff that is #2-56 thread \times 3/8" long minimum



† May be extended to condensation conditions





PART Number	WAVELENGTH	CONNECTOR	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE	# RACK SLOTS
CNFE1M1A/2	10/100 Mbps Ethernet 1310/1550nm	ST	1	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1M1B/2	10/100 Mbps Ethernet 1550/1310nm	ST	1	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1S1A/2	10/100 Mbps Ethernet 1310/1550nm	ST	1	Singlemode	15 dB	20 km (12 miles)	N/A
CNFE1S1B/2	10/100 Mbps Ethernet 1550/1310nm	ST	1	Singlemode	15 dB	20 km (12 miles)	N/A
CNFE1M2/3	10/100 Mbps Ethernet 1310nm	SC	2	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1S2/3	10/100 Mbps Ethernet 1310nm	SC	2	Singlemode	15 dB	20 km (12 miles)	N/A
CNFE1M1A/4	10/100 Mbps Ethernet 1310/1550nm	SC	1	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1M1B/4	10/100 Mbps Ethernet 1550/1310nm	SC	1	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1S1A/4	10/100 Mbps Ethernet 1310/1550nm	SC	1	Singlemode	15 dB	20 km (12 miles)	N/A
CNFE1S1B/4	10/100 Mbps Ethernet 1550/1310nm	SC	1	Singlemode	15 dB	20 km (12 miles)	N/A
CNFE1M2/5	10/100 Mbps Ethernet 1310nm	ST	2	Multimode	10 dB	3 km (2 miles)	N/A
CNFE1S2/5	10/100 Mbps Ethernet 1310nm	ST	2	Singlemode	15 dB	20 km (12 miles)	N/A

Options 9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz

Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)

Mounting Hardware (not included)



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