

10/100 Mbps Ethernet Electrical To Optical **Media Converter for Internal Mounting**

CNFE1(M,S)/(X) SERIES





-40° TO +75°





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.

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

APPLICATIONS

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

10/100 Mbps Ethernet Electrical To Optical Media Converter for Internal Mounting

SPECIFICATIONS

Data

Data Interface Ethernet

Data Rate 10/100 Mbps

IEEE 802.3 Compliant

Full 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

Power

Operating Voltage Range 22-27 VAC or 8-24 VDC Power Consumption 3W AC or 6W VDC











Electrical & Mechanical

Circuit Board Meets IPC Standard

Size (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

Mounting Hardware (Not Included)

Screw Size 2.5 mm

Min. Standoff Height 8 mm

SAE requirements #2-56 × 3/16" long Nylon Pan Head Screw

as a minimum into a 3/16" Nylon Hex Standoff

that is #2-56 thread × 3/8" long minimum

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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)¹

ORDERING INFORMATION

Part Number	Description	Connector	Fibers Required	Fiber	Optical Power Budget	Maximum Distance
CNFE1M1A/2	10/100 Mbps Ethernet 1310/1550nm	ST	1	Multimode	10 dB	3 km (2 miles)
CNFE1M1B/2	10/100 Mbps Ethernet 1550/1310nm	ST	1	Multimode	10 dB	3 km (2 miles)
CNFE1S1A/2	10/100 Mbps Ethernet 1310/1550nm	ST	1	Singlemode	15 dB	20 km (12 miles)
CNFE1S1B/2	10/100 Mbps Ethernet 1550/1310nm	ST	1	Singlemode	15 dB	20 km (12 miles)
CNFE1M2/3	10/100 Mbps Ethernet 1310nm	SC	2	Multimode	10 dB	3 km (2 miles)
CNFE1S2/3	10/100 Mbps Ethernet 1310nm	SC	2	Singlemode	15 dB	20 km (12 miles)
CNFE1M1A/4	10/100 Mbps Ethernet 1310/1550nm	SC	1	Multimode	10 dB	3 km (2 miles)
CNFE1M1B/4	10/100 Mbps Ethernet 1550/1310nm	SC	1	Multimode	10 dB	3 km (2 miles)
CNFE1S1A/4	10/100 Mbps Ethernet 1310/1550nm	SC	1	Singlemode	15 dB	20 km (12 miles)
CNFE1S1B/4	10/100 Mbps Ethernet 1550/1310nm	SC	1	Singlemode	15 dB	20 km (12 miles)
CNFE1M2/5	10/100 Mbps Ethernet 1310nm	ST	2	Multimode	10 dB	3 km (2 miles)
CNFE1S2/5	10/100 Mbps Ethernet 1310nm	ST	2	Singlemode	15 dB	20 km (12 miles)
Options	DC Plug-in Power Supply (not included) [1]Add suffix '/C' for Conformally Coated Circuit Bo Mounting Hardware (not included)	ards to extend to cond	densation conditic	ons (Extra charge,	consult factory)	

TYPICAL APPLICATION







