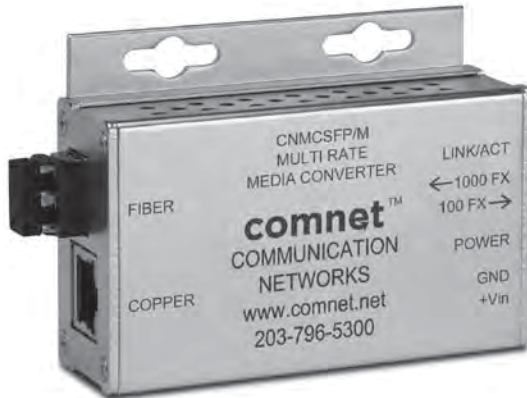


APPEARANCE



DESCRIPTION

The ComNet™ CNMCSFP/M is a single channel Ethernet converter from electrical to optical and optical to electrical. This device accepts a 10/100 or 1000 Mbps (Megabits Per Second) electrical input and converts this to a 100 or 1000 Mbps optical output (selected by a dip switch) and the 100/1000 Mbps optical input back to the 10/100/1000 Mbps electrical output. "Auto-Negotiating" is supported on the copper interface side. This device uses either one or two optical fibers, depending upon the selection of sold-separately SFP* optical module.

LED indicators display that the Optical Link is connected and that there is Data activity on the channel.

The CNMCSFP/M is designed to operate in harsh industrial environments with no electrical or optical adjustments required (Plug and Play). Power supplies are always provided with the product.

The CNMCSFP/M is a "Mini" package, perfect for use where space is at a premium.

APPLICATIONS

- › Optical transmission of Ethernet-compatible industrial security access control systems, intercom systems, VOIP (Voice over IP) telephony networks, and IP-compatible CCTV camera surveillance networks
- › Optical Ethernet transmission to wireless LAN access points
- › Industrial Security, Transportation/ITS, and Industrial Control/Factory Automation IP Networks
- › Optical transmission of any Ethernet-compatible equipment with a maximum data rate of 100 Mbps or 1000 Mbps

FEATURES

- › Full-duplex transmission of 10/100/1000 Mbps Ethernet
 - 10/100/1000 BASE-TX electrical port
 - 1000 BASE-FX optical port when used with suitable ComNet SFPs
- › IEEE 802.3 compliant
- › 10/100/1000 BASE-TX port supports auto-negotiation and automatic MDI/MDI-X crossover for full and half-duplex operation
- › Uses customer-installed ComNet SFPs for compatibility with a wide range of optical fibers, optical connector types, and optical transmission distances of up to 120 km
- › Designed for installation in harsh out-of-plant/unconditioned industrial or roadside operating environments (-40° to +75°C ambient). Fully compliant with the environmental requirements of NEMA TS-2 for Traffic Signal Control Equipment
- › Voltage transient protection on all power and signal input/output line provide unconditional protection from voltage surges and other transient events
- › Mini-package size of the CNMCSFP/M allows the unit to be installed in those locations where space is at a premium.
- › LED status indicators for rapidly ascertaining the operating status of the media convertor and the link
- › Lifetime warranty
- › Made in the U.S.A.

* SFP = Small Form-Factor Pluggable Module

SPECIFICATIONS

Data

Data Interface:	Ethernet
Data Rate:	10/100/1000 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port/Full Duplex Optical Port

Connectors

Optical:	SFP Dependent*
Electrical:	RJ-45
Power:	Terminal Block

Optical

Fiber:	Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP module
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LED Indicators

- Optical Link/Data Activity
- Power

Electrical & Mechanical

Power:	9-24 VDC @ 200 Ma. max., or 24 VAC @ 200 Ma. max.
Surface Mount:	Automatic Resettable Solid-State Current Limiters
Current Protection:	Meets IPC Standard
Circuit Board:	3.3 x 2.5 x 1.1 in (8.4 x 6.4 x 2.8 cm)
Size (in./cm) (LxWxH):	
Shipping Weight:	<1 lbs./0.45 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)†

* Multimode fiber needs to meet or exceed fiber standard ITU-T G.651.
Single mode fiber needs to meet or exceed fiber standard ITU-T G.652

† May be extended to condensation conditions

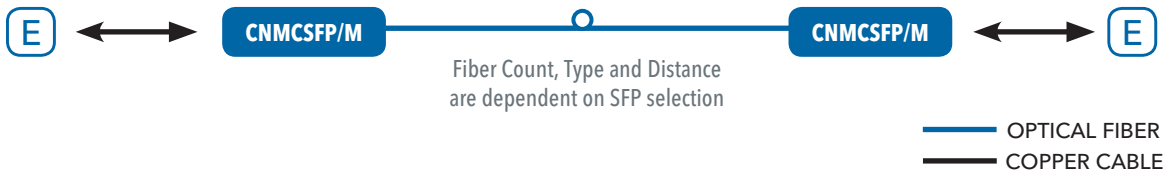


ORDERING INFORMATION

Part Number	Description
CNMCSFP/M	Mini 10/100/1000 Mbps Ethernet Media Converter with 100 FX and 1000 FX support
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)
Options	Industrially-Hardened NEMA TS-1/TS-2 compliant power supply for use in out-of-plant applications. Consult factory for additional information. Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) See ComNet "SFP Modules" data sheet for number and description of Small Form Factor Pluggable Modules.

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.

TYPICAL APPLICATION



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