

10/100/1000 Mbps Ethernet Media Converters with 100FX and 1000FX Support + Optional Power over Ethernet (PoE)

CNMC[2]SFP[POE][/M] Series













-40° то +75° С

FLEXIBILITY

30W POE+

CONVERTER



The ComNet CNMCSFP electrical-to-optical Ethernet media converters accept a 10/100 or 1000 Mbps 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. These devices use either one or two optical fibers, depending upon the selection of sold-separately SFP[†] optical module. A PoE model, the CNMCSFPPOE/M meets the IEE802.3at standard and provides 30 watts of PoE+ power. The series consists of a small-size single channel model, CNMCSFP/M; a ComFit standard size, single-channel model, CNMCSFP; and a dual channel, the CNMC2SFP.

FEATURES

- > Full-duplex transmission of 10/100/1000 Mbps Ethernet
- 10/100/1000BASE-TX electrical port
- 1000BASE-FX or 100BASE-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 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.
- > Supports Jumbo Frames up to 10K Bytes for streaming video applications

- > Bi-color LED status indicators confirm operating status
- > Hot-swappable rack modules
- > Available in small-size, ComFit interchangeable stand alone or rack unit single and dual models
- > Lifetime warranty
- Made in the U.S.A.

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

^{*} Power Supply for PoE applications is sold separately. † Small Form-Factor Pluggable Module. Sold separately.

SPECIFICATIONS

Data Interface Ethernet Data Rate 10/100/1000 Mbps IEEE 802.3 Compliant

Full Duplex or Half Duplex Electrical Port/ Full

Duplex Optical Port

Connectors¹

Power Terminal Block Optical SFP dependent Electrical RJ45 Fibers¹ SFP Dependent

Fiber Connectors Requires selection of sold-separately SFP modules.

> See ComNet data sheet for number and description of SFP modules.

Power

Operating Voltage Range Non-PoE: 9-24 VDC @ 200mA Max,

or 24 VAC @ 200mA Max

PoE: 48 - 57 VDC @ 0.85A (not included) CNMCSFPPOE/M: 35W (with full PoE+ load) **Power Consumption**

Surface Mount: 5W

Current Protection Automatic Resettable Solid-State Current Limiters

Electrical & Mechanical

LED Indicators → Optical Link/Data Activity → Power > POE Enabled (CNMCSFPPOE/M only)

Circuit Board Meets IPC Standard

ComFit Size $6.1 \times 5.3 \times 1.1$ in $(15.5 \times 13.5 \times 2.8$ cm)

ComFit Rack Slots

Mini Size 3.3 x 2.5 x 1.1 in (8.4 x 6.4 x 2.8 cm)

Shipping Weight <2 lbs./0.9 kg

Environmental

MTBF >100,000 hours -40° C to +75° C **Operating Temp** -40° C to +85° C Storage Temp

Relative Humidity 0% to 95% (non-condensing)2

[1] 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



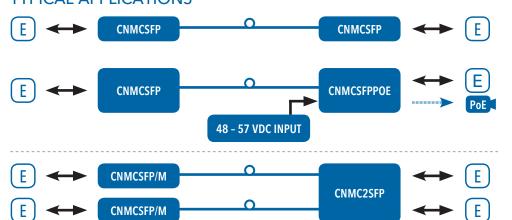


ORDERING INFORMATION

Part Number	Description	# Rack Slots
CNMCSFP/M	Mini 10/100/1000Mbps Ethernet Media Converter	N/A
CNMCSFPPOE/M	Mini 10/100/1000Mbps Ethernet Media Converter with IEEE 802.3at 30W PoE+	N/A
CNMCSFP	ComFit 10/100/1000Mbps Ethernet Media Converter	1
CNMC2SFP	ComFit Dual 10/100/1000Mbps Ethernet Media Converter	1
CNMC2SFPPOE	ComFit Dual 10/100/1000Mbps Ethernet Media Converter with IEEE 802.3at 30W PoE+	1
Included Accessories	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included, for benign 0 to 50°C applications only. Hardened power supply available, consult factory)	
Options	48 Volt DC Plug-in Power Supply for use with CNMCSFPPOE/M model only (Extra charge, consult factory).	
	User selection of ComNet SFP (see SFP Modules data sheet for product numbers and compatibility before ordering)	
	[2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)	
	DIN-Rail Mounting Adaptor Kit - With Mounting Hardware (Optional, order model DINBKT4)	

Note: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATIONS





Fiber Count, Type and Distance are dependent on SFP selection



