



The ComNet CNMC[2]SFP/[M]V series Ethernet to VDSL2 media converters accept a 10/100/1000 Mbps electrical input and convert this to a SFP-VDSL output and the SFP-VDSL input back to the 10/100/1000 Mbps electrical output. "Auto-Negotiating" is supported on the copper interface side. Connect SFP-VDSL devices using a twisted 2-wire cable. Refer to connection paragraph for details. The series consists of a small-size single channel model, CNMCSFP/MV, and a ComFit standard size, dual channel model, CNMC2SFP/V.

The CNMCSFP/MV media converters are designed specially for the VDSL-SFP (sold separately).

FEATURES

- › Full-duplex transmission of 10/100/1000 Mbps Ethernet
 - 10/100/1000BASE-TX electrical port
 - VDSL2 via SFP-VDSL[A/B]
- › 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 SFP-VDSL interface to connect devices using a twisted 2-wire cable over long distances
- › 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/MV allows the unit to be installed in those locations where space is at a premium.
- › 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

- › VDSL2 transmission of Ethernet-compatible industrial security access control systems, intercom systems, VOIP (Voice over IP) telephony networks, and IP-compatible CCTV camera surveillance networks
- › VDSL2 to Ethernet transmission to wireless LAN access points
- › Industrial Security, Transportation/ITS, and Industrial Control/Factory Automation IP Networks
- › VDSL2 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

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
VDSL2	RJ45
Electrical	RJ45

Power

Operating Voltage Range	9-24 VDC or 24 VAC
Power Consumption	Surface Mount: 2.5W 1Ch, 5W 2Ch, 10W 4Ch
Current Protection	Automatic Resettable Solid-State Current Limiters

Electrical & Mechanical

LED Indicators	› SFP-VDSL › Ethernet › Link/Data Activity › Power
Circuit Board	Meets IPC Standard
ComFit Size	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
ComFit Rack Slots	1
Mini Size	3.3 × 2.5 × 1.1 in (8.4 × 6.4 × 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) 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
CNMC5FP/MV	Mini 10/100/1000Mbps Ethernet Media Converter, Fixed 1000BASE-FX	N/A
CNMC2SFP/V	ComFit Dual 10/100/1000Mbps Ethernet Media Converter	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	SFP-VDSLAB (Sold separately, consult factory) [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

