comnet
Communication Networks

INSTALLATION AND OPERATION MANUAL

CNMC[2]SFP/[M]V Series

10/100/1000MBPS ETHERNET TO VDSL2 MEDIA CONVERTERS

This manual serves the following ComNet Model Numbers:

CNMCSFP/MV

CNMC2SFP/V

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 CNMC2SFP/V media converters are designed specially for the VDSL-SFP, sold separately.

FIGURE 1 – CNMCSFP/MV SMALL SIZE UNIT

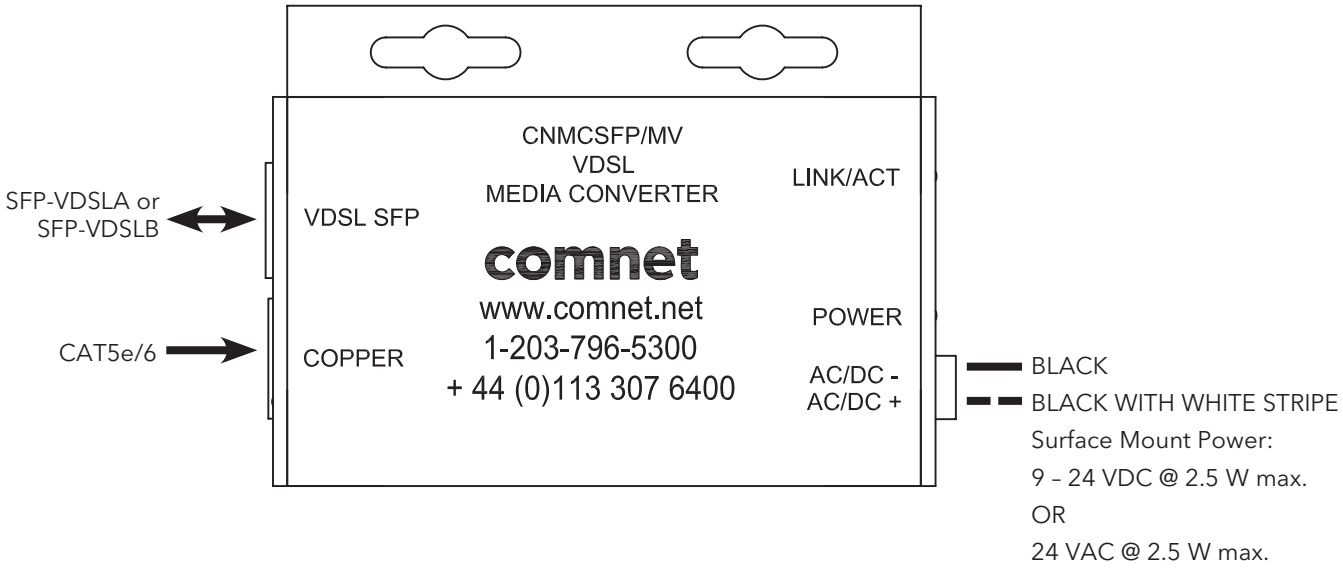


FIGURE 2 – CNMCSFP/MV SMALL SIZE UNIT

FRONT PANEL REAR PANEL

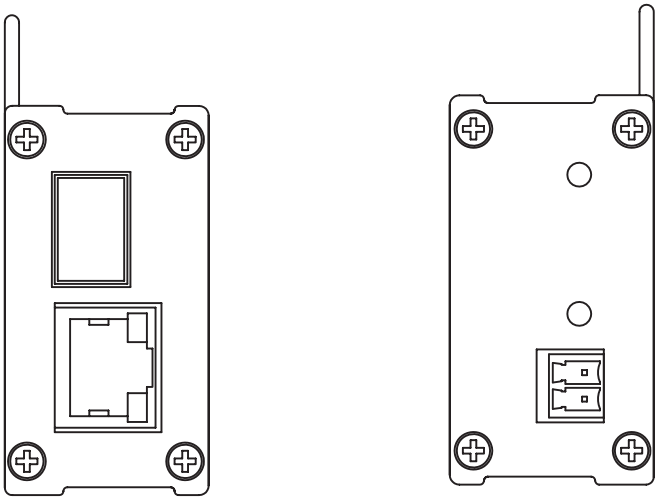
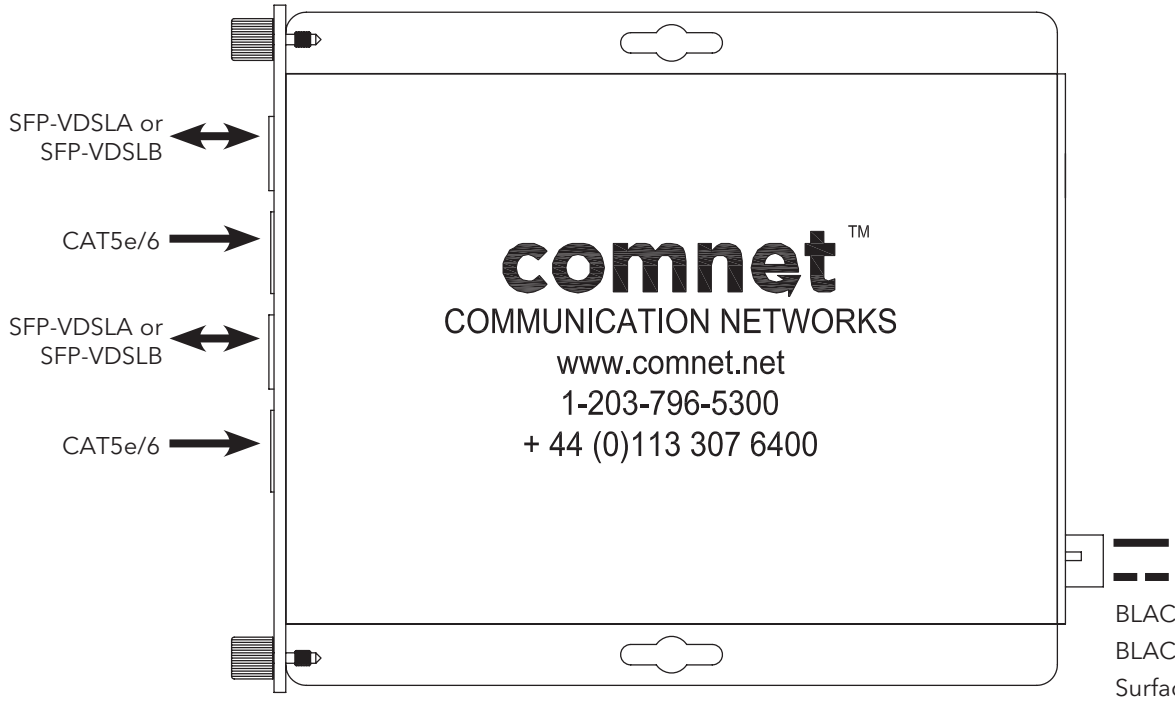


FIGURE 3 – CNMC2SFP/V COMFIT UNIT



Surface Mount Power:
9 – 24 VDC @ 5 W max.
OR 24 VAC @ 5 W max.
Rack power: Supplied by Rack

FIGURE 4 – CNMC2SFP/V COMFIT UNIT

FRONT PANEL REAR PANEL

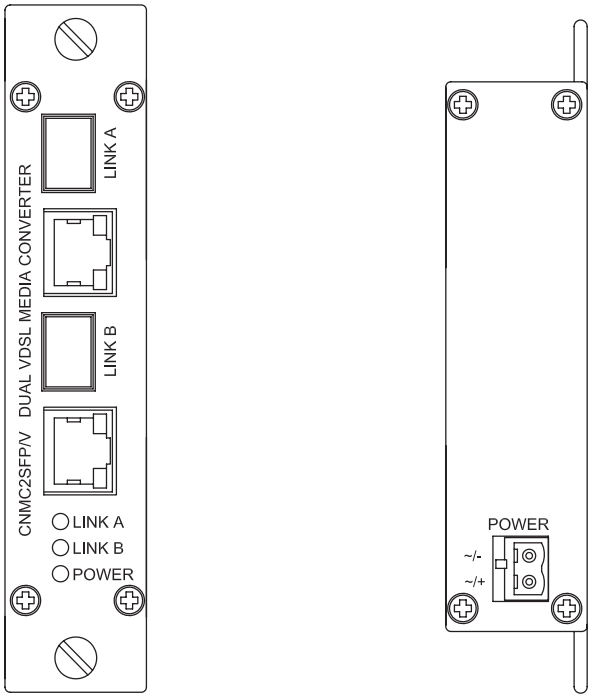
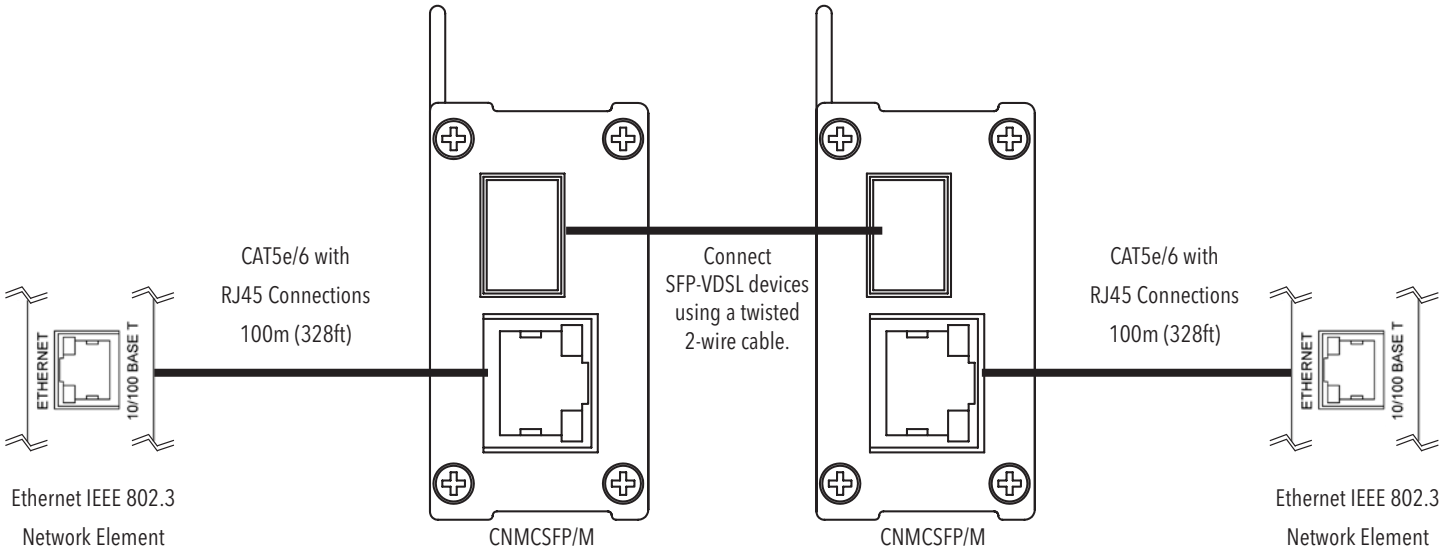


FIGURE 5 – LED INDICATORS

	SFP-VDSL LINK	COPPER	POWER
GREEN	Link	Solid – No Activity Blinking – Activity	Unit powered up
YELLOW	–	Highest Data Rate	–
OFF	No Link	No Link	Unit powered down

FIGURE 6 – POSSIBLE ETHERNET CONFIGURATION

Ethernet IEEE 802.3 Network Element determined by user.



INSTALLATION & OPERATION

SFP-VDSL is a book-end solution that allows for connectivity over long 2 wire twisted cable. To install and connect SFP-VDSL interface:

- Connect SFP-VDSL devices using a twisted 2-wire cable (use pins 4 & 5). Always connect SFP-VDSLA to a SFP-VDSLB.
- Link synchronization may take up to one minute.

SFP-VDSLAB Specifications

Interface

Type	1000BaseFX
Connector	SFP / MSA Compliant
Connectors	RJ-45
Data Rate	Up to 150 Mbps

Power

Operating Voltage	12 V
Power Consumption	3 W Max

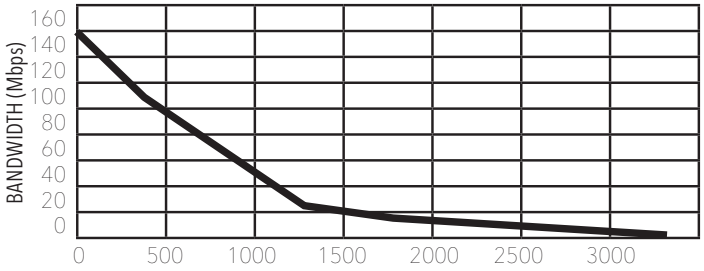
Mechanical

LED Indicators	Power / Link Status on side of SFP module
Dimensions (H x W x L)	0.54 × 0.67 × 3.12 in (13.7 × 17.0 × 79.2 mm)
Weight	1.13 oz / 32.0 g

Environmental

Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
Relative Humidity	0 to 90%, non-condensing

FIGURE 7 - BANDWIDTH VS DISTANCE



INSTALLATION CONSIDERATIONS

This fiber-optic link is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

C1-US, C1-EU, C1-AU OR C1-CH CARD CAGE RACKS

CAUTION: Although the units are hot-swappable and may be installed without turning power off to the rack, ComNet recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. Note: Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

CAUTION: Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

WARNING: Unit is to be used with a Listed Class 2 power supply.

IMPORTANT SAFEGUARDS:

A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

MADE IN THE USA

FIGURE A

Dimensions are for a ComNet™ small size module

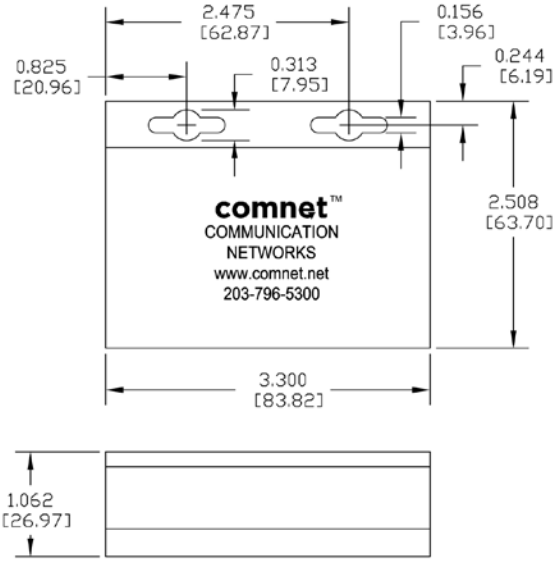
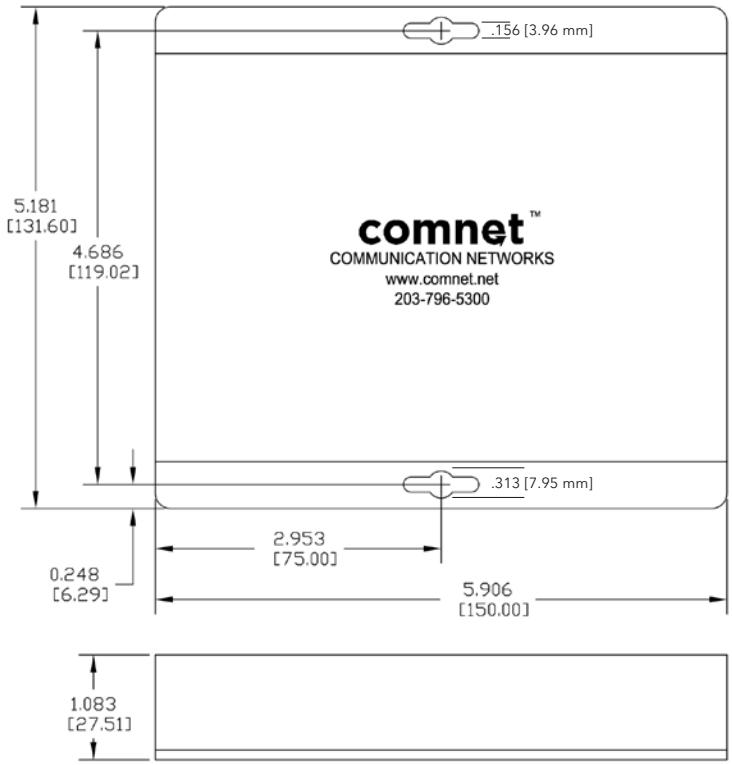


FIGURE B

Dimensions are for a standard ComNet™ one slot module



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