



## INSTALLATION AND OPERATION MANUAL

# CNFE2MC[AC][M] & CNFE22MC

10/100 MBPS ETHERNET 2 PORT MEDIA CONVERTER  
1 CHANNEL: ELECTRICAL ↔ SFP OPTICAL  
2 CHANNELS: ELECTRICAL ↔ SFP OPTICAL

The ComNet™ CNFE2MC[M] Ethernet 2 port media converter and CNFE22MC dual 2 port are designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP options.

These models require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. See instructions included with SFP for installation of selected module.

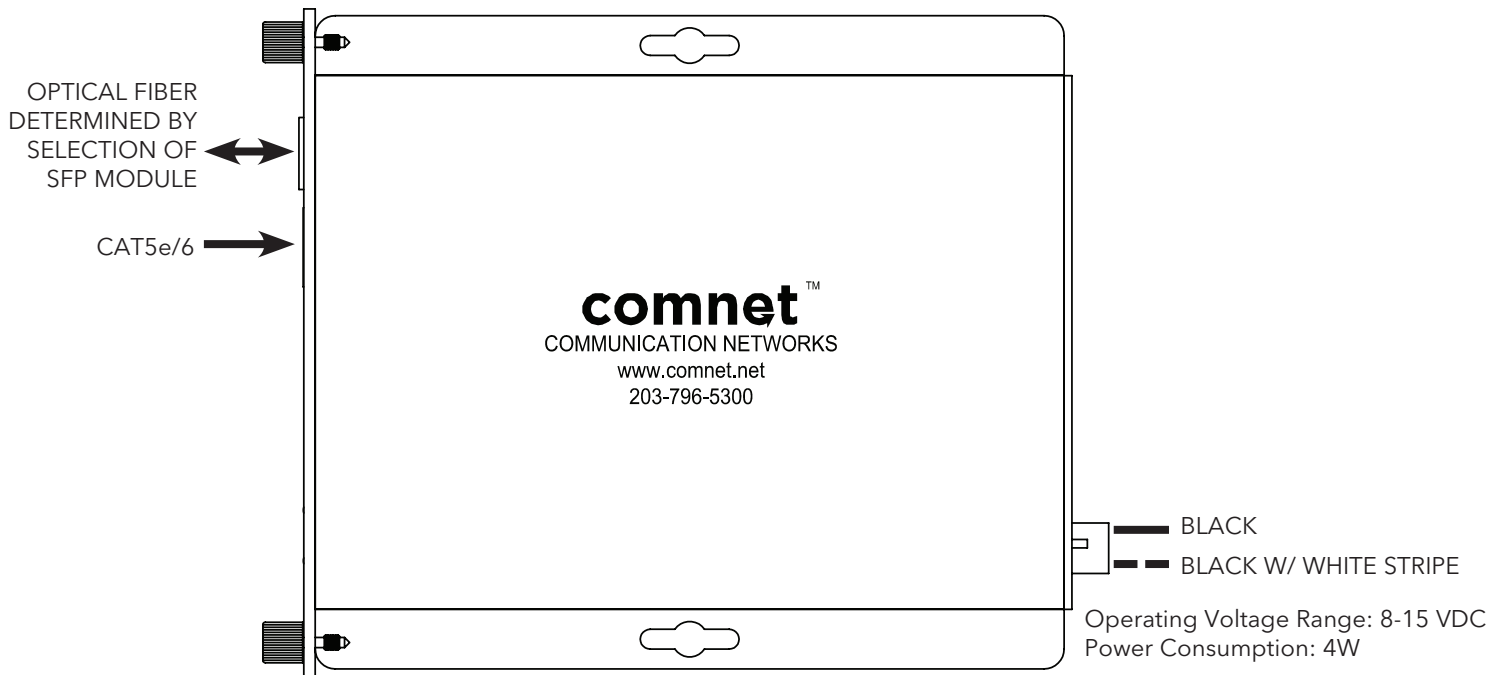
The CNFE2MC and CNFE2MCM each transmit and receive a single channel of Ethernet data and the CNFE22MC transmits and receives two independent channels in one unit. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. Both are environmentally hardened to operate in extreme temperatures.

LED indicators are provided for confirming equipment operating status. See **Figure 9** on **Page 6** for LED indicator descriptions.

See **Figures 1 - 10** for complete installation details.

The CNFE2MC and CNFE22MC standard size units may be directly plugged into the ComNet Rack (Part C1) or operated as standalone modules. The CNFE2MC/M small size unit operates as standalone module only and there are models for both DC and AC power. See **Page 7** for mounting instructions.

FIGURE 1 - CNFE2MC STANDARD SIZE UNIT



NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 2 - CNFE2MC STANDARD SIZE UNIT

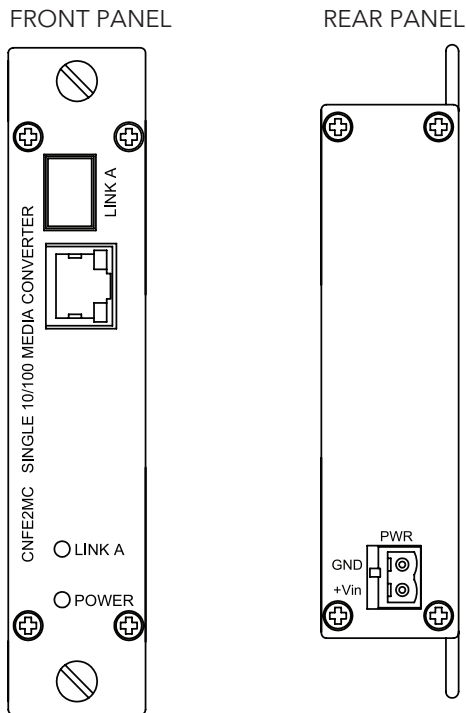


FIGURE 3 - CNFE2MCM SMALL SIZE UNIT

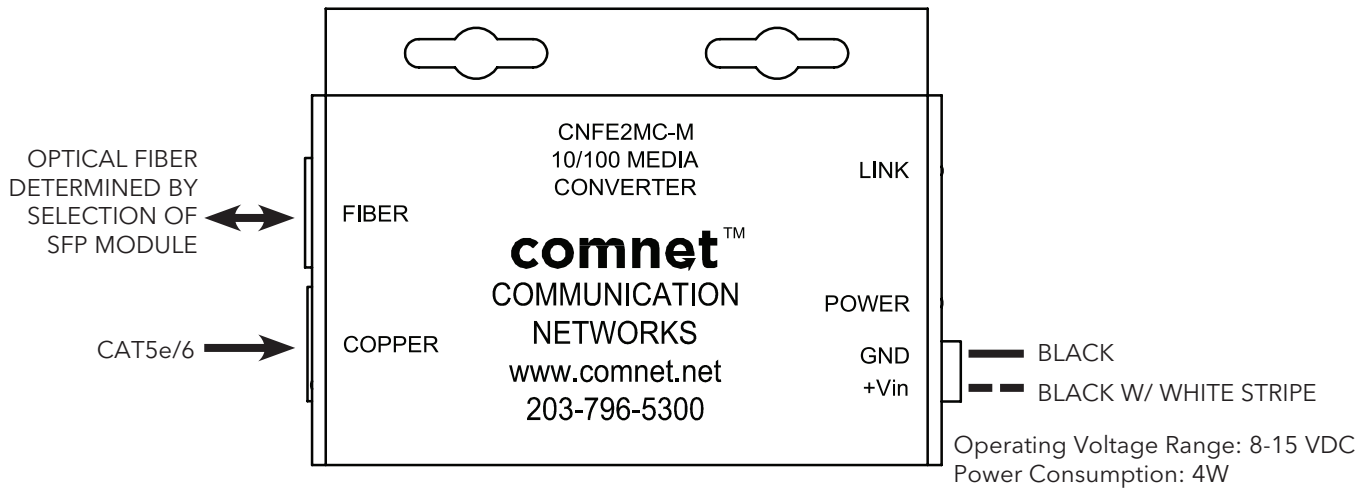


FIGURE 4 - CNFE2MCM SMALL SIZE UNIT

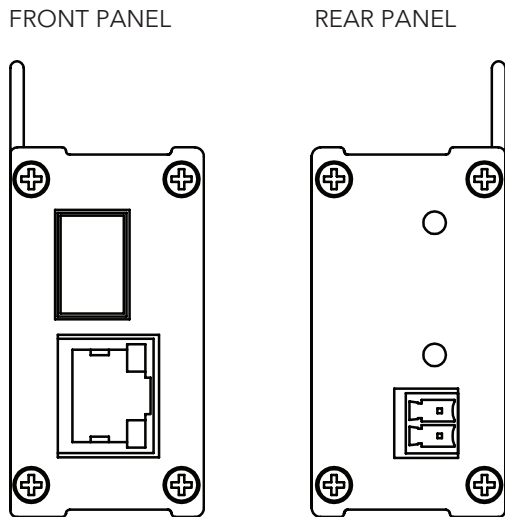


FIGURE 5 - CNFE2MCAC/M SMALL SIZE UNIT

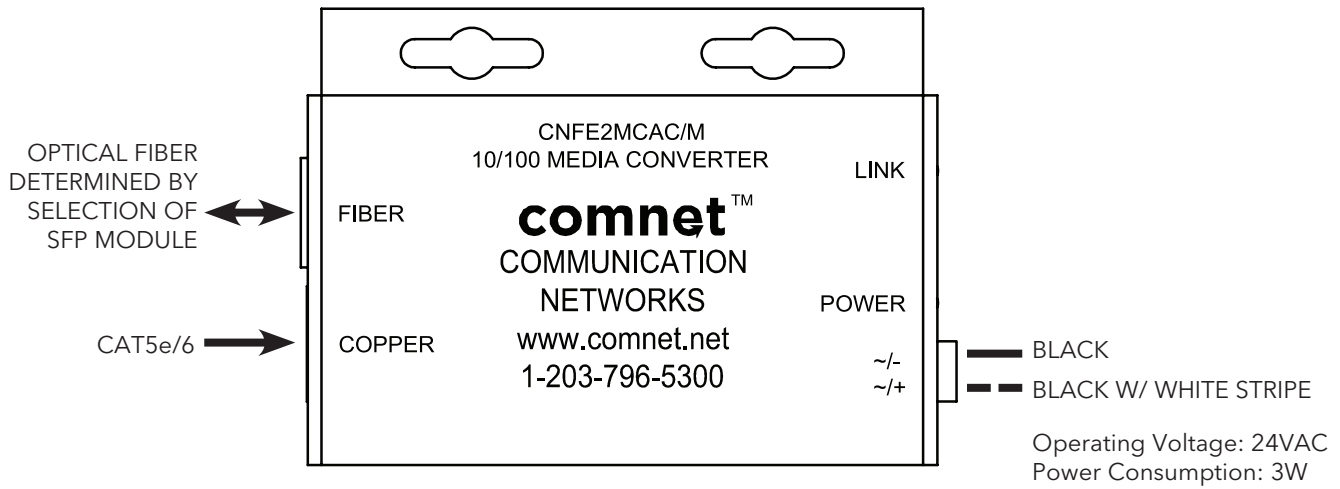


FIGURE 6 - CNFE2MCM SMALL SIZE UNIT

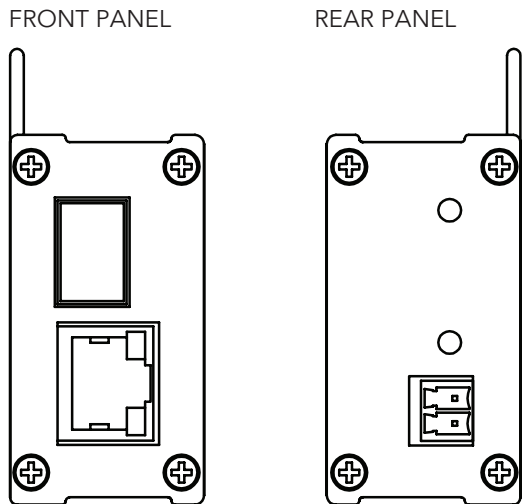
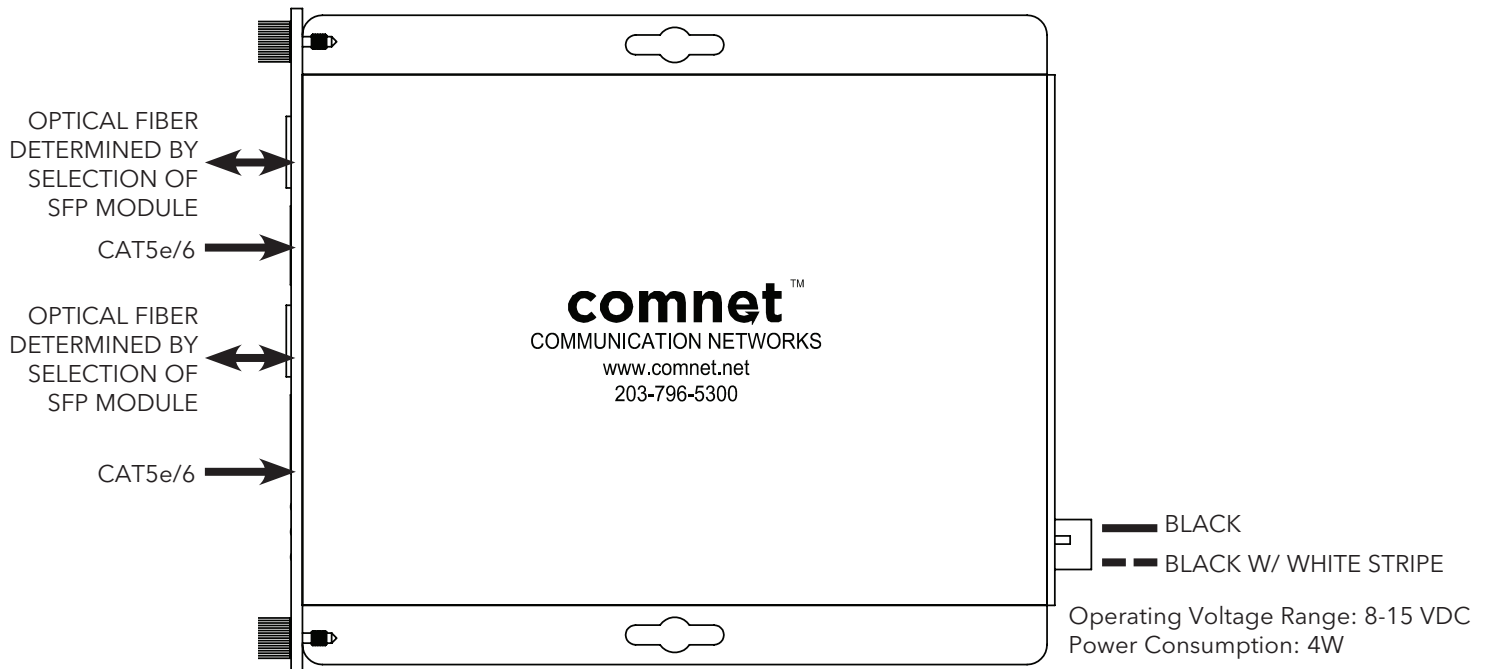


FIGURE 7 - CNFE22MC STANDARD SIZE UNIT



NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 8 - CNFE22MC STANDARD SIZE UNIT

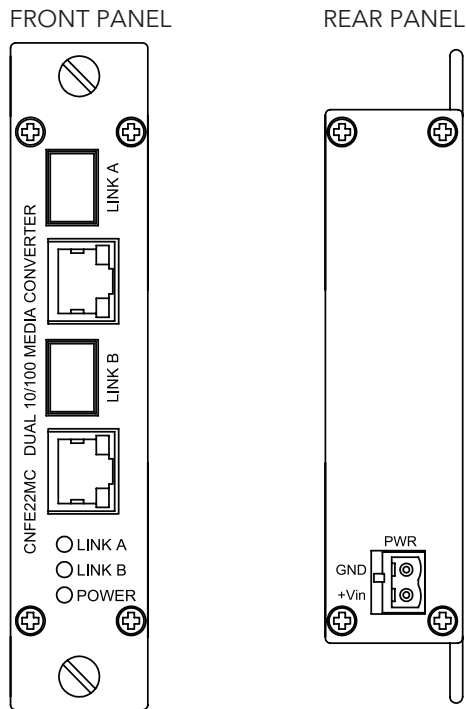
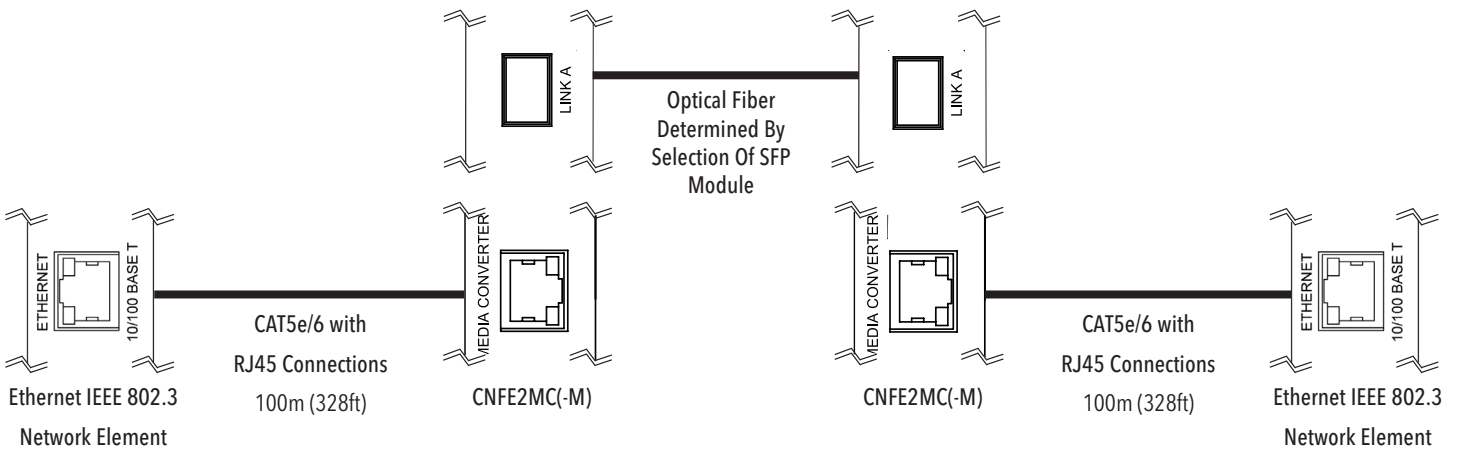


FIGURE 9 - LED INDICATORS

	LINK (A or B)	RJ45	POWER
<b>GREEN</b>	Solid - No Activity Blinking - Activity	Solid - No Activity Blinking - Activity	Unit powered up
<b>YELLOW</b>	Highest Data Rate (ComFit Units Only)	Highest Data Rate	-
<b>OFF</b>	No Link	No Link	Unit powered down

FIGURE 10 - POSSIBLE ETHERNET CONFIGURATION

*Ethernet IEEE 802.3 Network Element determined by user.*



**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 (T<sub>ma</sub>) specified by the manufacturer.

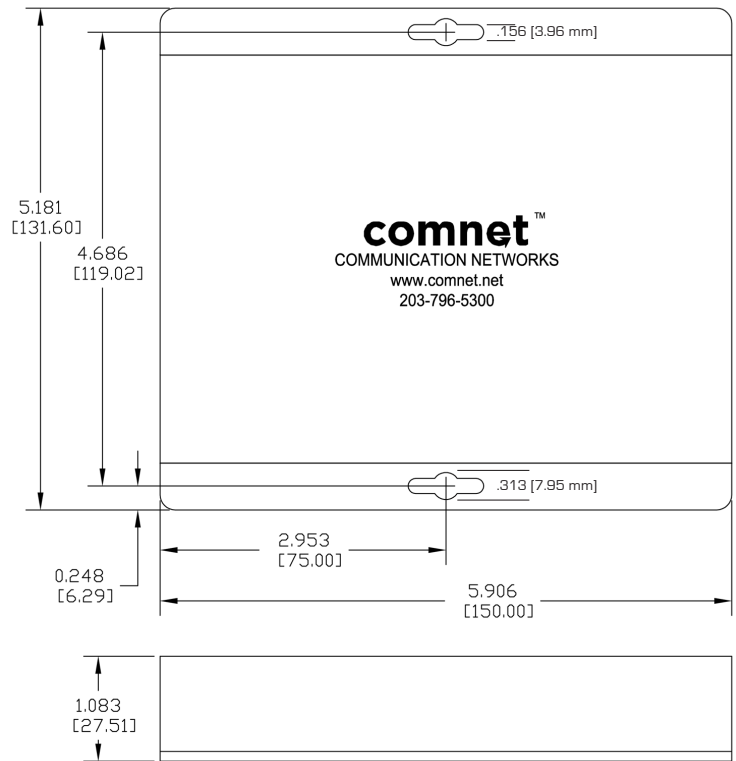
**B) Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.



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**FIGURE A**

Dimensions are for a standard ComNet™ one slot module



**FIGURE B**

Dimensions are for a ComNet™ medium size module

