



## INSTALLATION AND OPERATION MANUAL

### CNFE100(X) Series

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



The CNFE100(X) converts 10/100 Mbps Fast Ethernet from an electrical signal to an optical signal and back to an electrical signal. The electrical connection uses an RJ45 data connector.

Depending on the specific model in use, the optical connector is either a ST or SC, 1 or 2 Fibers, multimode (M) or singlemode (S), and the unit operates on either AC/DC or DC only power.

The CNFE100(X) Series standard size units may be directly plugged into the ComNet Rack (Part C1) or operated as a standalone module. The CNFE100(X)-M small size units operate as standalone modules only.

See **Figures 1 – 7** for complete installation details.

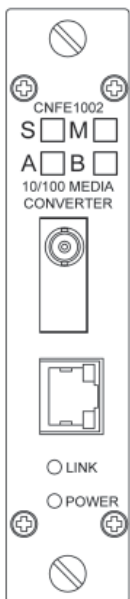
FIGURE 1 – CNFE100(X) SERIES STANDARD SIZE UNIT



FIGURE 2 – CNFE100(X) SERIES STANDARD SIZE UNIT

FRONT PANEL

REAR PANEL



NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 4 – CNFE100(X) SERIES SMALL SIZE UNIT

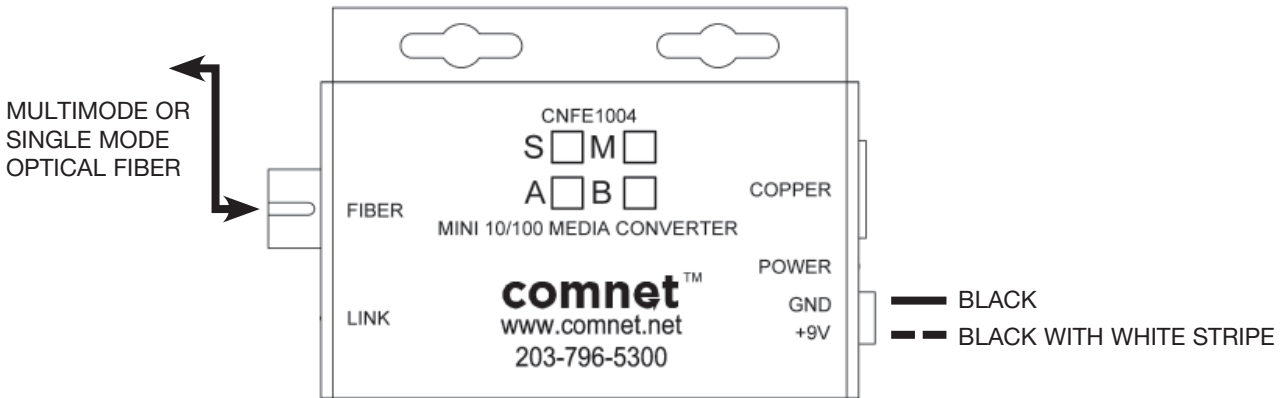
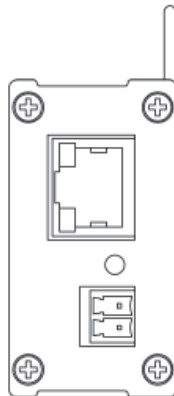
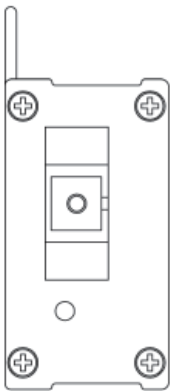


FIGURE 5 – CNFE100(X) SERIES SMALL SIZE UNIT

FRONT PANEL

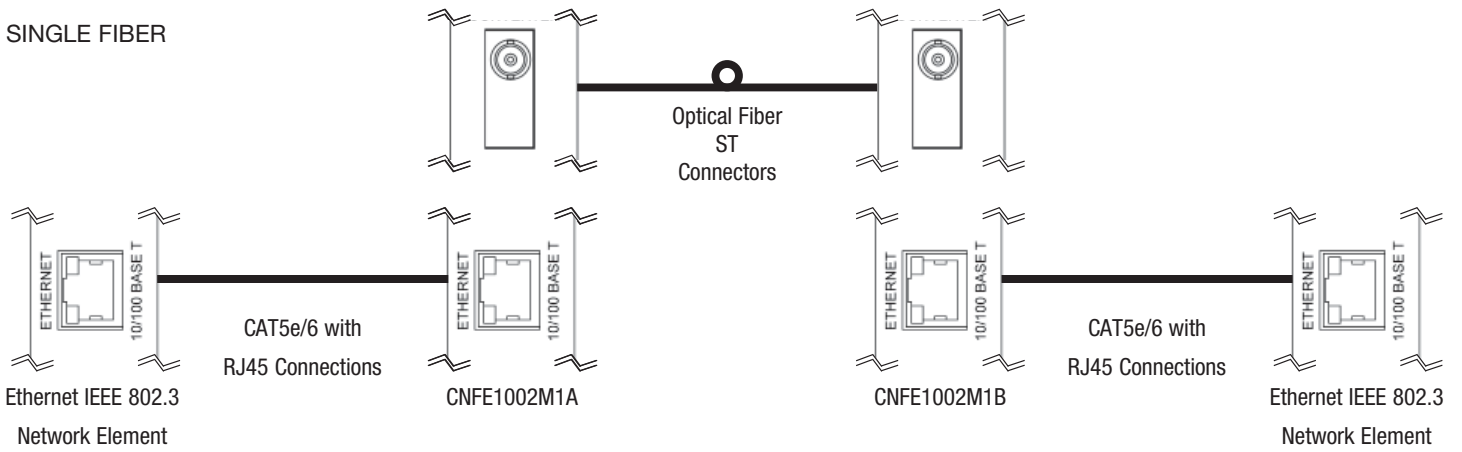
REAR PANEL



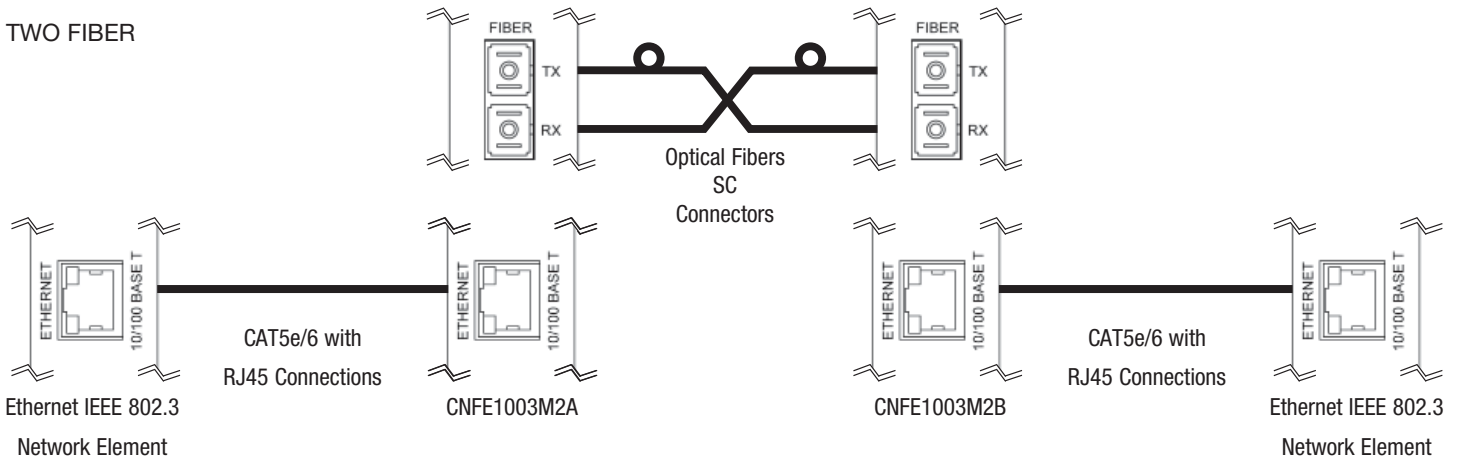
## FIGURE 6 – POSSIBLE ETHERNET CONFIGURATIONS

Ethernet IEEE 802.3 Network Element determined by user.

### SINGLE FIBER



### TWO FIBER



## FIGURE 7 – LED INDICATORS

	LINK	POWER
<b>GREEN</b>	Ethernet link has been established at the RJ45 connector.	Unit powered up
<b>OFF</b>	Unit Powered Down	

# MECHANICAL INSTALLATION INSTRUCTIONS

## 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.

### STANDALONE MODULE:

The unit is provided with a mounting plate with holes for two No. 6 pan head screws (3 mm or 3.55 mm). **Attach the module to a solid piece of wood using two No. 6 pan head wood screws with a minimum penetration into the wood of 3/4 inch. (Screws not supplied). See Figure A.**

### RACK MODULE:

The unit is designed to be installed in the ComNet 19-inch (483-mm) EIA standard card-cage rack, the C1-US, C1-EU, or the C1-CH. Follow these guidelines to install rack cards after performing module setup procedures.

### 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 or LPS power supply rated 9-12 VDC @ 1A.

**WARNING:** This unit should be installed in a restricted access location; available through the use of a lock and key or other means of security. Access should be limited to service personnel who have been instructed about the reasons for the restrictions to the location. Any and all precautions should be taken and controlled by the authority responsible for the location.

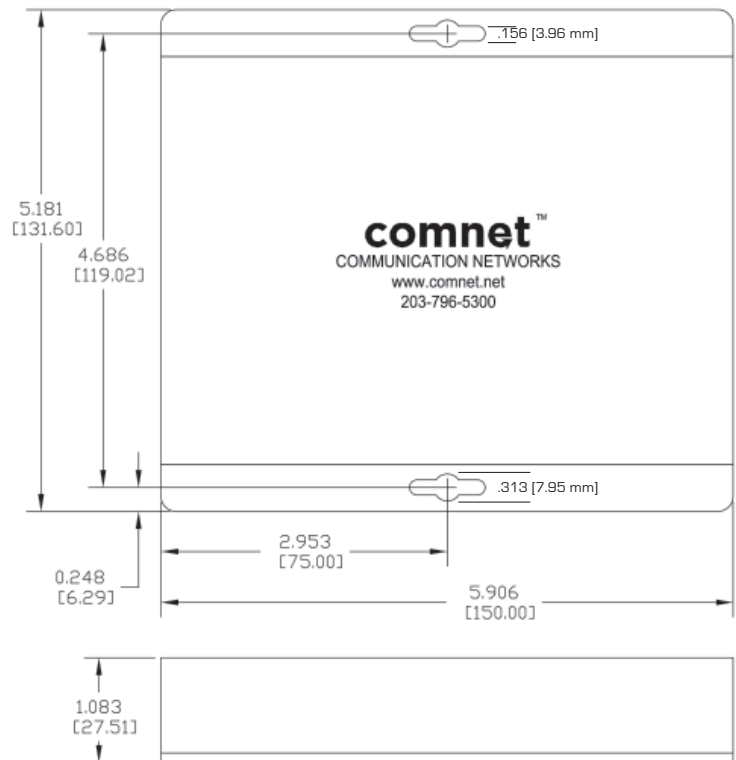
### IMPORTANT SAFEGUARDS:

**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.

**FIGURE A**

Dimensions are for a standard ComNet™ one slot module



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