



## INSTALLATION AND OPERATION MANUAL

# CNGE2MCPOEM

## 10/100/1000 MBPS 2 PORT MEDIA CONVERTER WITH POWER OVER ETHERNET

The ComNet™ CNGE2MCPOEM Ethernet 2 port media converter is designed to transmit and receive 10/100/1000 Mbps data over optical fiber through user selectable SFP options. The CNGE2MCPOEM transmits and receives a single channel of Ethernet data. As power sourcing equipment (PSE), it also supports IEEE802.3at with up to 30 Watts of operating power to the remote powered device (PD). It requires the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. Its electrical interface will Auto-Negotiate to a 10 Mbps, 100 Mbps or 1000 Mbps Ethernet rate without any adjustments. The optical interface operates at a 1000 Mbps Ethernet rate. The CNGE2MCPOEM is environmentally hardened to operate in extreme temperatures.

LED indicators are provided for confirming equipment operating status. See **Figure 3** on **Page 3** for LED indicator descriptions.

See **Figures 1 – 4** for complete installation details.

The CNGE2MCPOEM operates as a standalone module. See **Figure A** on **Page 4** for mounting instructions.

FIGURE 1 – CNGE2MCPOEM MEDIA CONVERTER

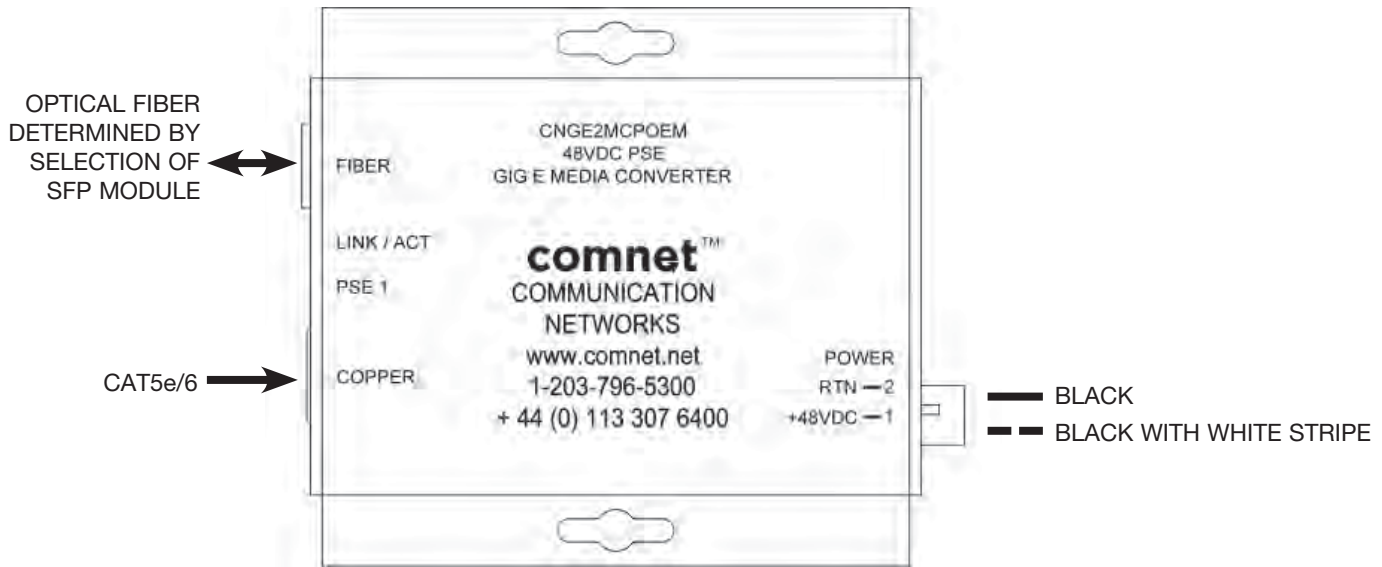


FIGURE 2 – CNGE2MCPOEM MEDIA CONVERTER

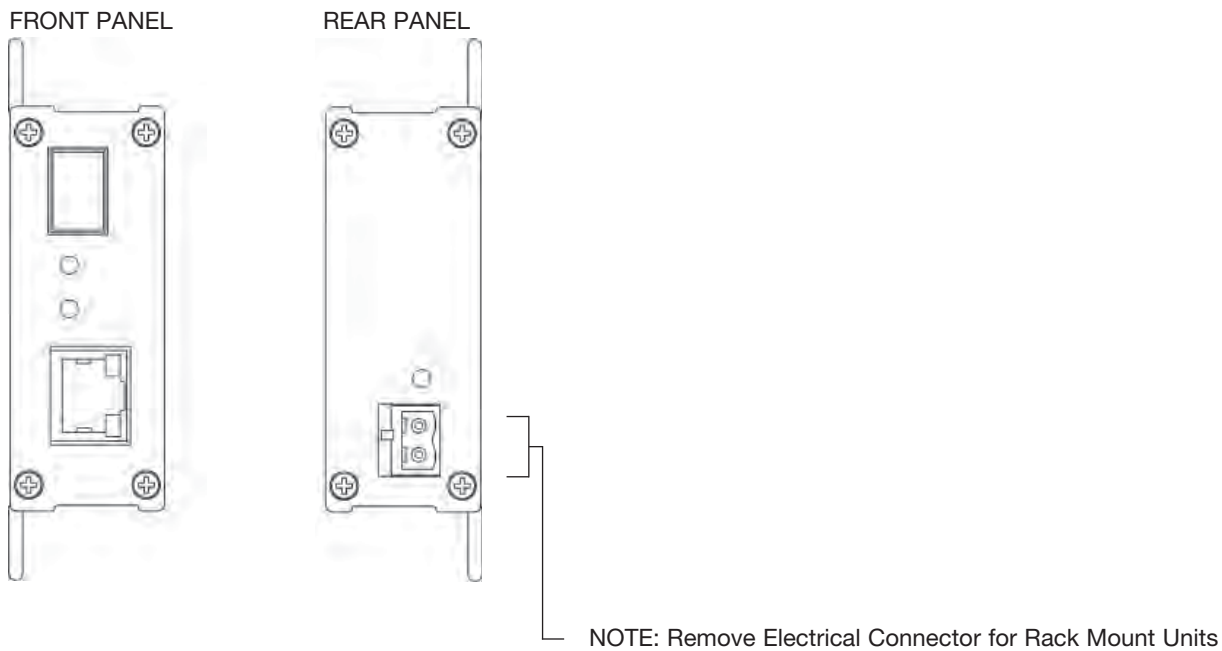
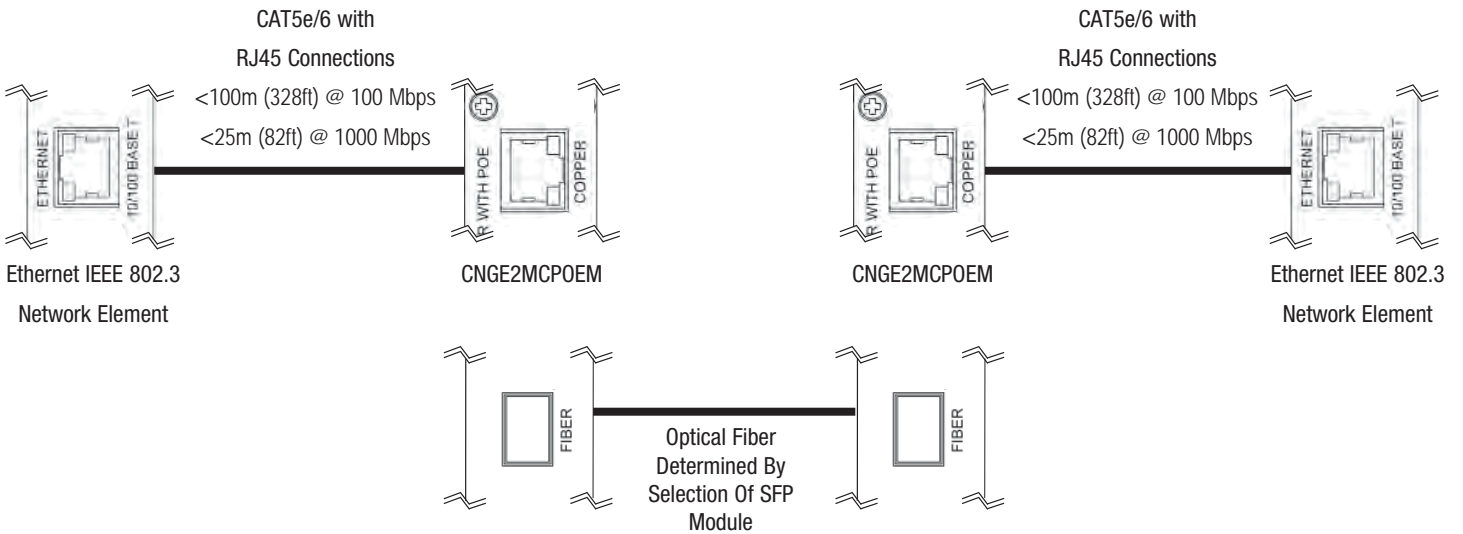


FIGURE 3 – LED INDICATORS

|              | LINK/ACT                                      | PSE1  | POWER             |
|--------------|---|---|-------------------|
| <b>GREEN</b> | Fiber interface linked (when lit or flashing) | Power is being supplied by unit             | Unit powered up   |
| <b>OFF</b>   | Fiber interface not linked.                   | Power not supplied by unit. (No PoE device) | Unit powered down |

FIGURE 4 – POSSIBLE ETHERNET CONFIGURATION

Ethernet IEEE 802.3 Network Element determined by user.



# MECHANICAL INSTALLATION INSTRUCTIONS

## INSTALLATION CONSIDERATIONS

This unit is supplied as a Standalone module. Units should be installed in dry locations protected from extremes of temperature and humidity.

**WARNING:** Unit is to be used with a Listed Class 2 or LPS power supply rated 48 VDC @ 1A.

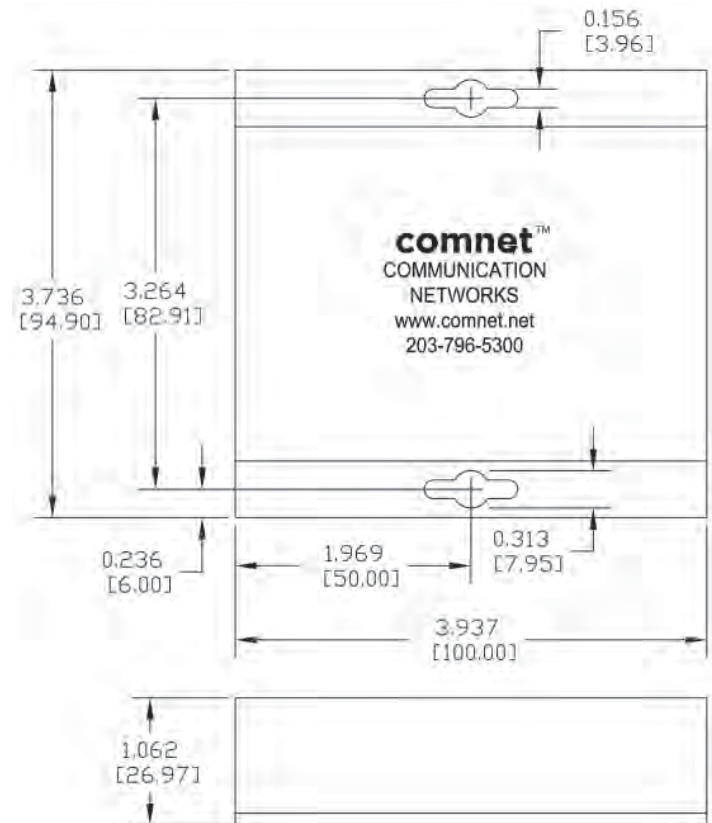
### IMPORTANT SAFEGUARDS:

**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 small size ComNet™ surface mount module*



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