



## INSTALLATION AND OPERATION MANUAL

# CNFE2MCPOE[/M]

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

The ComNet™ CNFE2MCPOE Ethernet 2 port media converter is designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP modules. These models require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors.

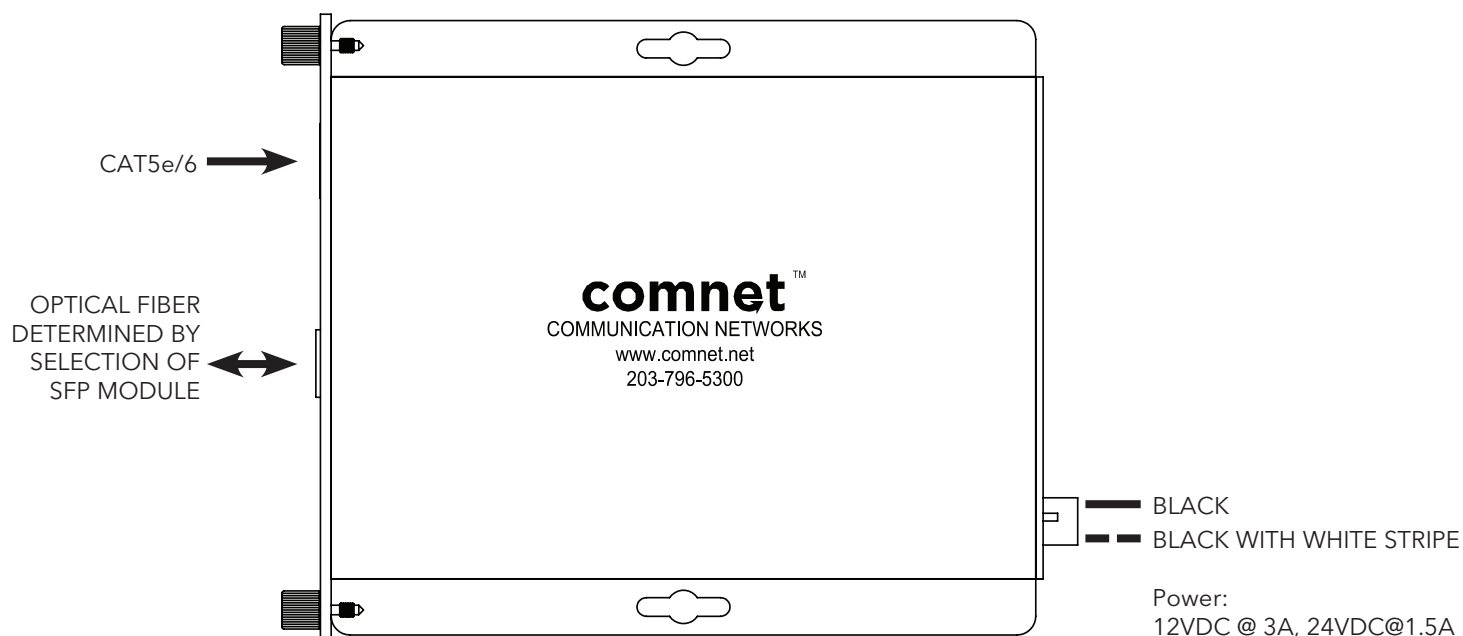
The CNFE2MCPOE transmits and receives a single channel of Ethernet data. It also supports IEEE 802.3at as Power Sourcing Equipment (PSE) with up to 30 Watts output, both Mode A or Mode B are supported. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. It is environmentally hardened to operate in extreme conditions.

LED indicators are provided for confirming equipment operating status. See **Figure 5** on **Page 4** for LED indicator descriptions.

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

The CNFE2MCPOE operates as a standalone module. It can also be mounted in a ComNet Rack, but PoE operation is not supported in this application. See **Page 6** for mounting instructions.

FIGURE 1 - CNFE2MCPOE MEDIA CONVERTER



NOTE: Remove Electrical Connector for Rack Mount Units.  
**PoE is not supported when mounted within ComNet rack.**

FIGURE 2 - CNFE2MCPOE MEDIA CONVERTER

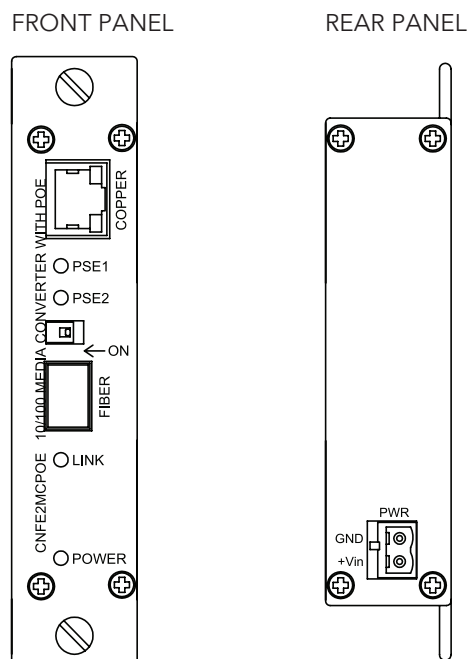


FIGURE 3 - CNFE2MCPOEM MEDIA CONVERTER

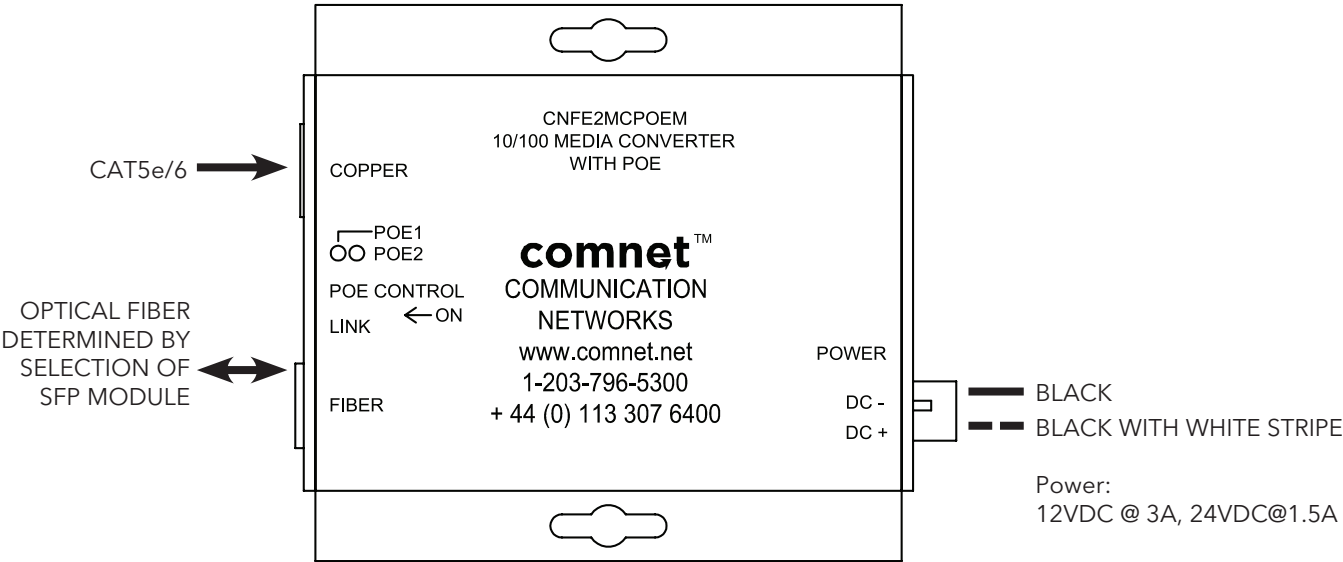


FIGURE 4 - CNFE2MCPOEM MEDIA CONVERTER

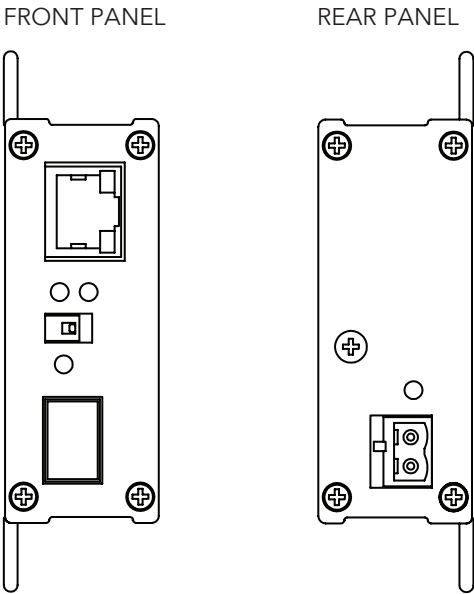
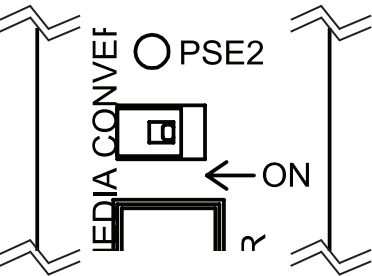


FIGURE 5 - LED INDICATORS

	LINK	PSE1 or PSE2	POWER
GREEN	Fiber interface linked (when lit or flashing)	Power is being supplied by unit	Unit powered up
OFF	Fiber interface not linked.	Power not supplied by unit. (No PoE device)	Unit powered down

FIGURE 6 - SWITCH POSITIONS

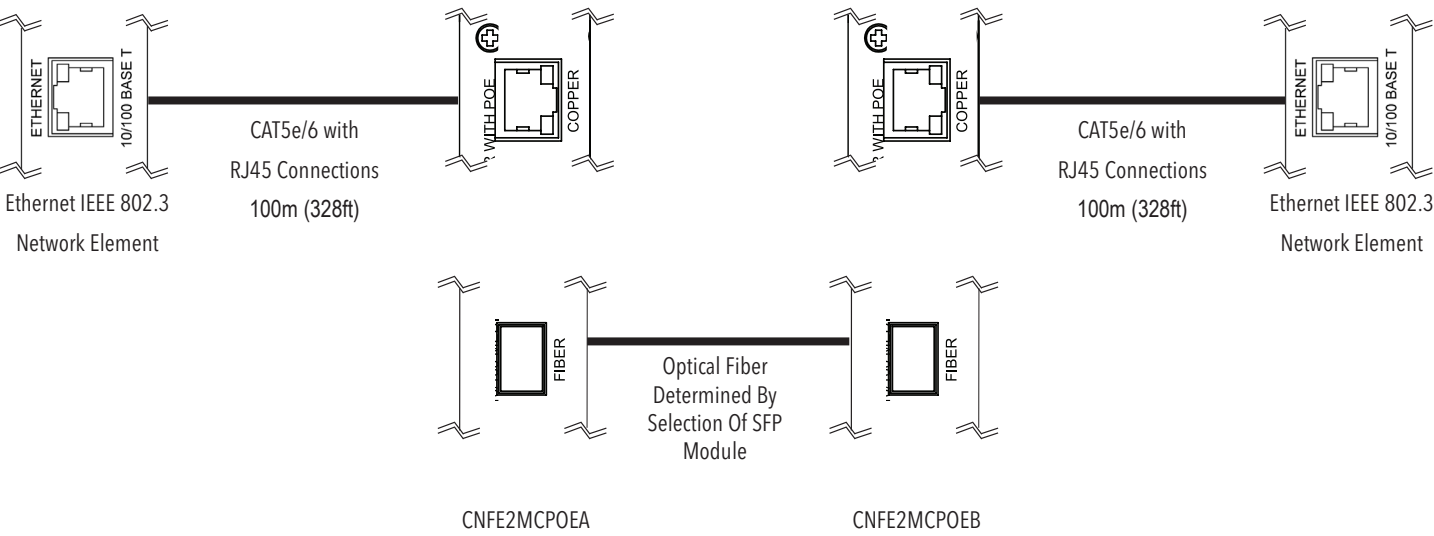
Power over Ethernet is controlled by a switch based on fiber link.



SWITCH	LINK	PSE1 / PSE2
ON	Yes (On or Flash)	ON
	No (off)	OFF
OFF	-	ON

FIGURE 7 - POSSIBLE ETHERNET CONFIGURATION

Ethernet IEEE 802.3 Network Element determined by user.





## INSTALLATION CONSIDERATIONS

The CNFE2MCP0E is supplied as a Rack Mount/Surface mount module. In the ComNet Rack, PoE operation is not supported. The CNFE2MCP0EM is supplied as a Surface mount 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 power supply.

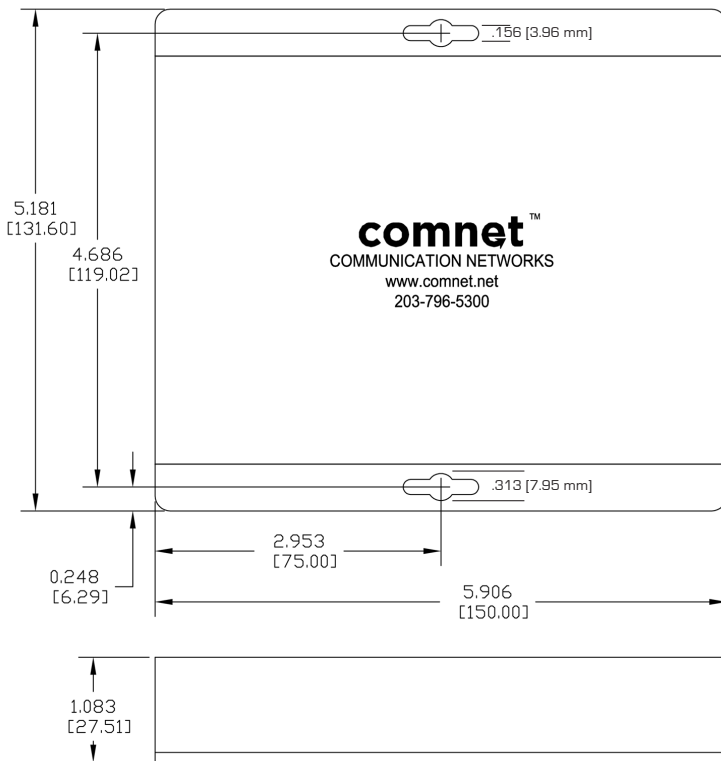
### IMPORTANT SAFEGUARDS:

**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 ( $T_{ma}$ ) 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.

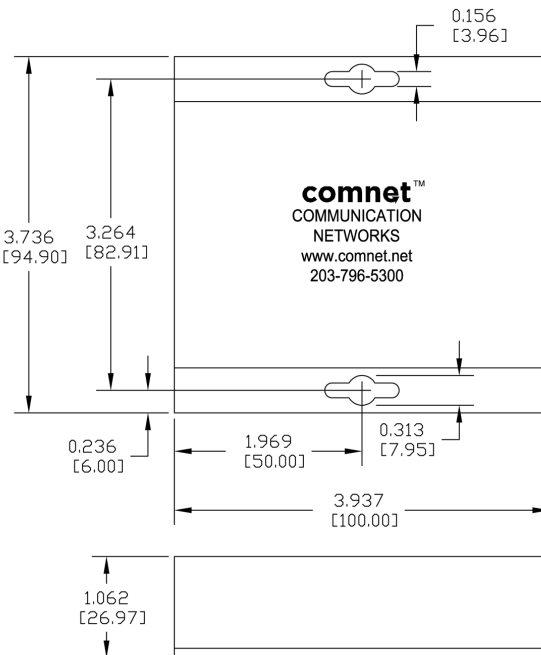
**FIGURE A**

Dimensions are for a standard ComNet™ one slot module



**FIGURE B**

Dimensions are for a small size ComNet™ surface mount module



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