

## INSTALLATION AND OPERATION MANUAL

# CNFE100(X) PoE Series

10/100 MBPS ETHERNET FIBER OPTIC  
MEDIA CONVERTER WITH 30W OR 60W POE+

### This manual serves the following ComNet Model Numbers:

CNFE1003POEM/M  
CNFE1003POEMHO/M  
CNFE1003POES/M  
CNFE1003POESHO/M  
CNFE1005POEM/M  
CNFE1005POEMHO/M  
CNFE1005POES/M  
CNFE1005POESHO/M  
CNFE1004APOEM/M  
CNFE1004BPOEM/M  
CNFE1004APOEMHO/M  
CNFE1004BPOEMHO/M  
CNFE1004APOES/M  
CNFE1004BPOES/M  
CNFE1004APOESHO/M  
CNFE1004BPOESHO/M  
CNFE1002APOEM/M  
CNFE1002BPOEM/M  
CNFE1002APOEMHO/M  
CNFE1002BPOEMHO/M  
CNFE1002APOES/M  
CNFE1002BPOES/M  
CNFE1002APOESHO/M  
CNFE1002BPOESHO/M  
CNFESFPMCPOE30/M  
CNFESFPMCPOE60/M

The ComNet™ CNFE100(X)POE(M,S)/M Series 10/100Mbps Ethernet media converters provide full-duplex fiber optic transmission of a single channel of 10/100BASE-T(X) data through multimode or single mode optical fiber. Type ST, SC or SFP optics are available. They provide full compliance with IEEE 802.3at as Power Sourcing Equipment (PSE), with a maximum power of 30 watts in Mode A or Mode B, making them ideal for those applications where the remote equipment draws significant power. A higher output 60 watt model is available.

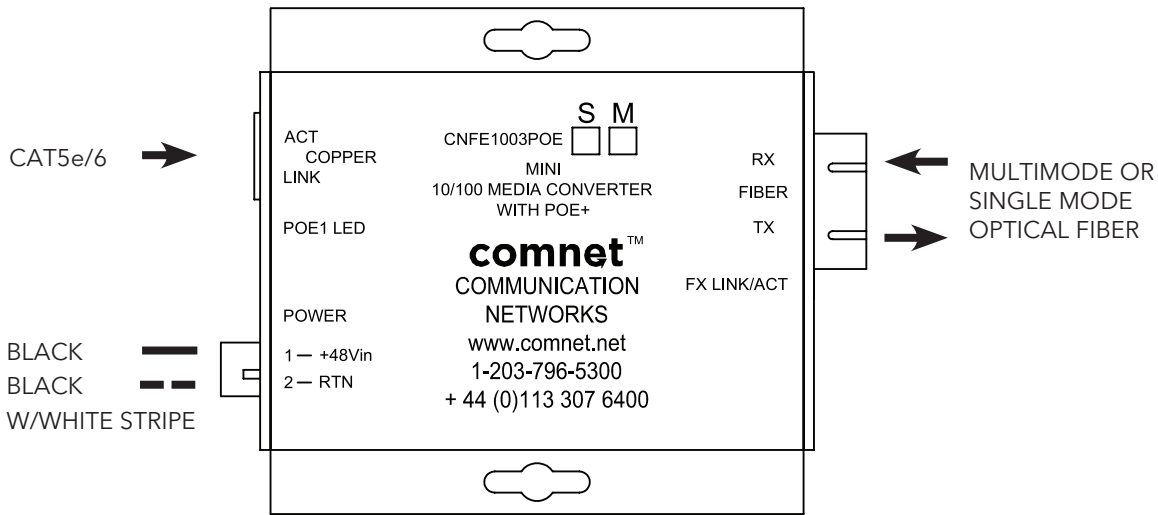
Mode A and mode B are selected by the media converter automatically. The Ethernet electrical interface auto-negotiates to either 10 or 100Mbps without the need for any user selection, and the 100BASE-FX optical interface operates at 100Mbps.

LED indicators are provided for rapidly ascertaining the operating status of the device. See **Figure 13** on **Page 8** for an explanation of the LED Indicators.

Packaged in a rugged, compact sized housing, these units are designed for shelf or stand-alone mounting, or may be DIN-rail mounted by the addition of ComNet model DINBKT2 Adaptor plate kit. See **Figure A** on **Page 9** for mounting instructions.

See **Figures 1 - 15** for complete installation instructions.

FIGURE 1 - CNFE1003POE(M,S)-M MEDIA CONVERTER



Surface Mount  
 Power Supply: 48VDC @ 1.25A

FIGURE 2 - CNFE1003POE(M,S)-M MEDIA CONVERTER

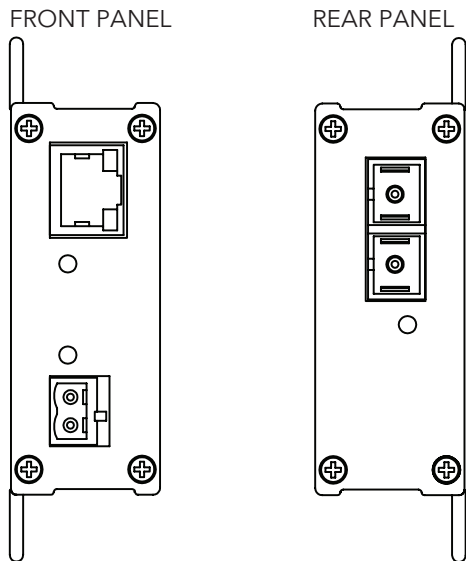
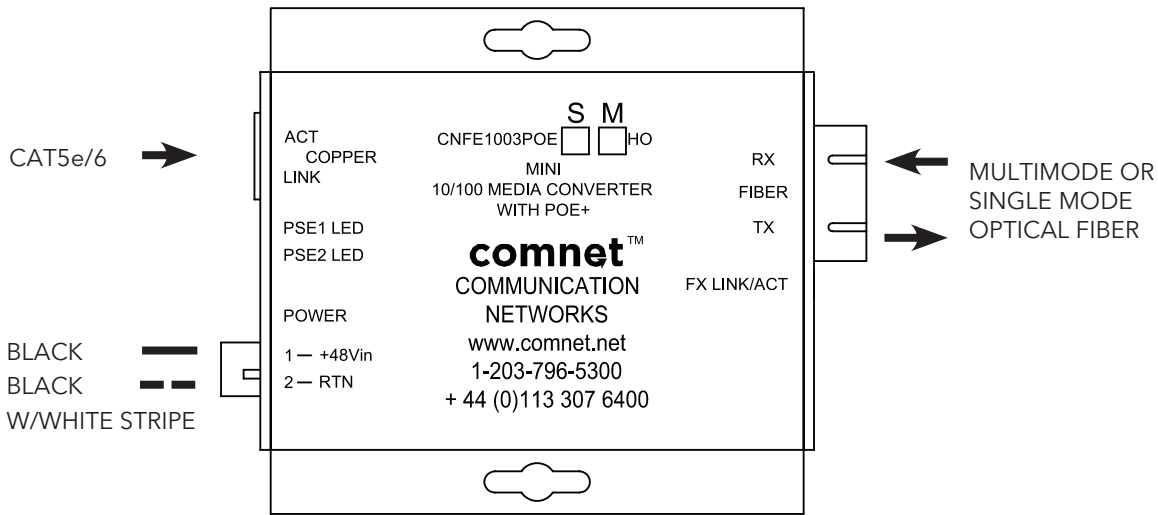


FIGURE 3 - CNFE1003POE(M,S)HO-M MEDIA CONVERTER



Surface Mount  
Power Supply: 48VDC @ 1.25A

FIGURE 4 - CNFE1003POE(M,S)HO-M MEDIA CONVERTER

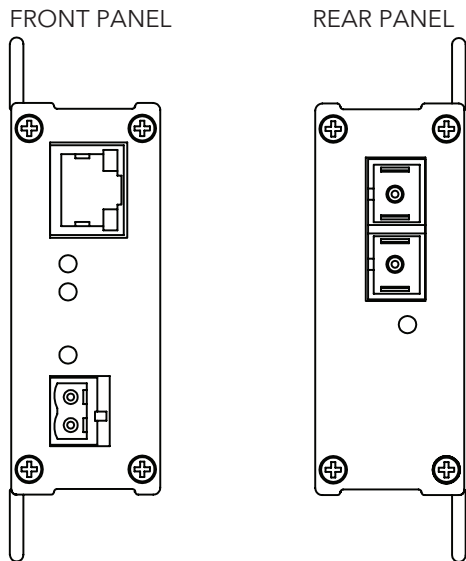
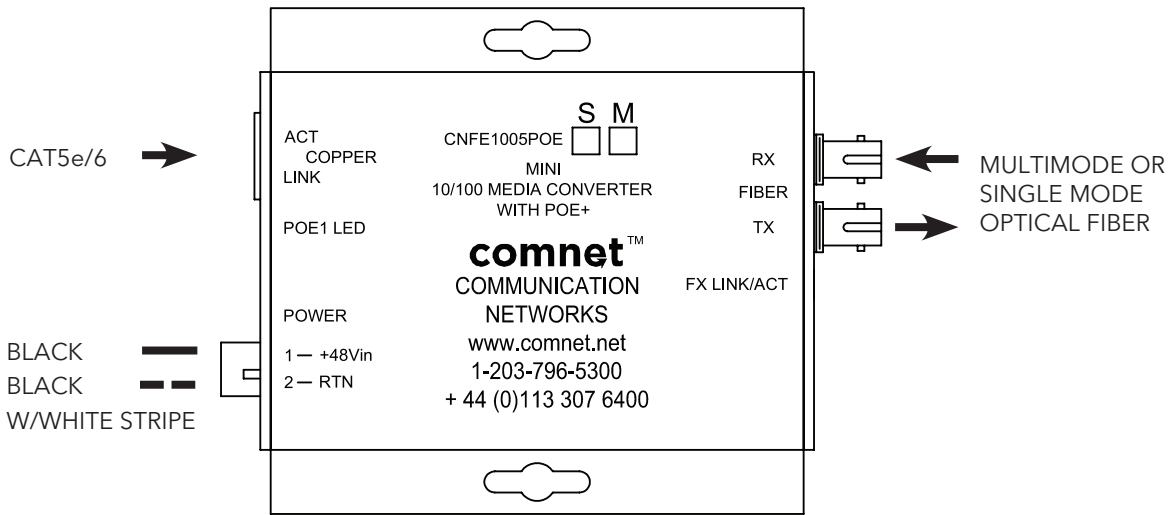


FIGURE 5 - CNFE1005POE(M,S)-M MEDIA CONVERTER



Surface Mount  
 Power Supply: 48VDC @ 1.25A

FIGURE 6 - CNFE1005POE(M,S)-M MEDIA CONVERTER

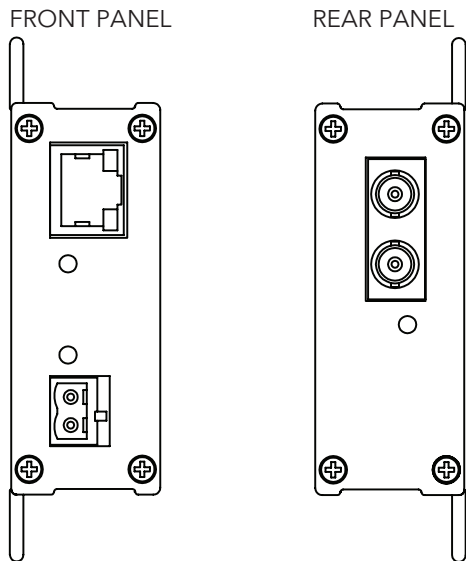
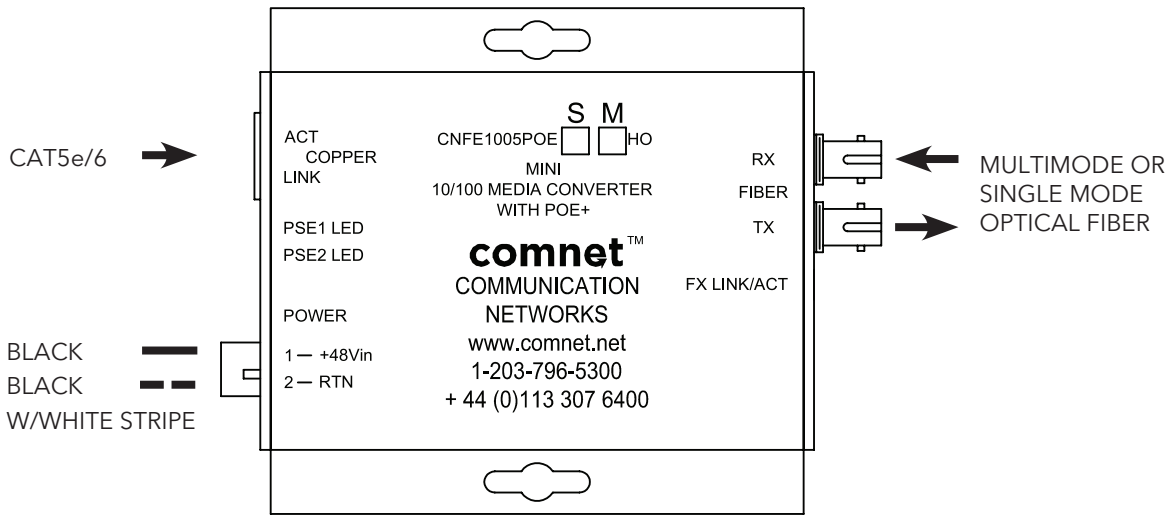


FIGURE 7 - CNFE1005POE(M,S)HO-M MEDIA CONVERTER



Surface Mount  
Power Supply: 48VDC @ 1.25A

FIGURE 8 - CNFE1005POE(M,S)HO-M MEDIA CONVERTER

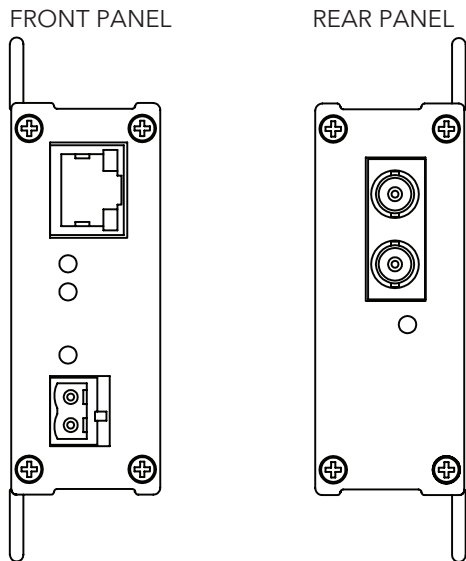


FIGURE 9 - CNFESFPMCPOE30M MEDIA CONVERTER

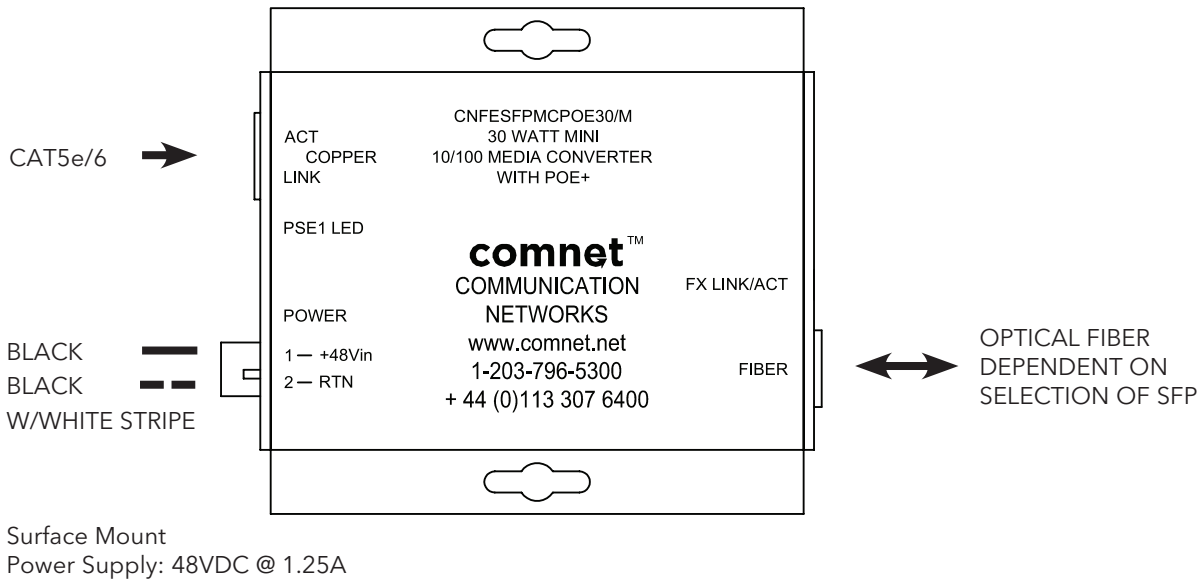


FIGURE 10 - CNFESFPMCPOE30M MEDIA CONVERTER

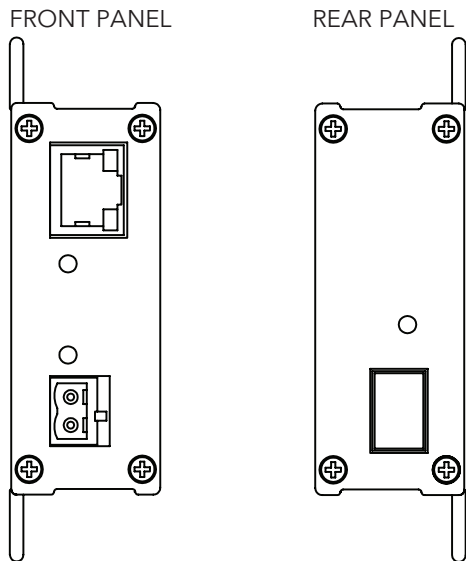


FIGURE 11 - CNFESFPMCPOE60M MEDIA CONVERTER

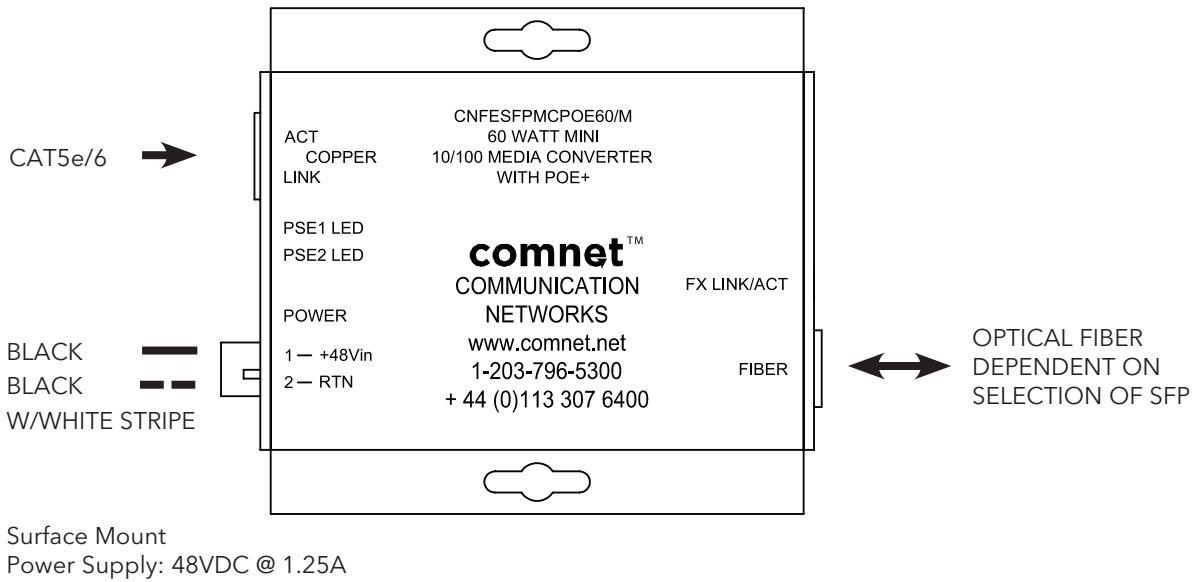
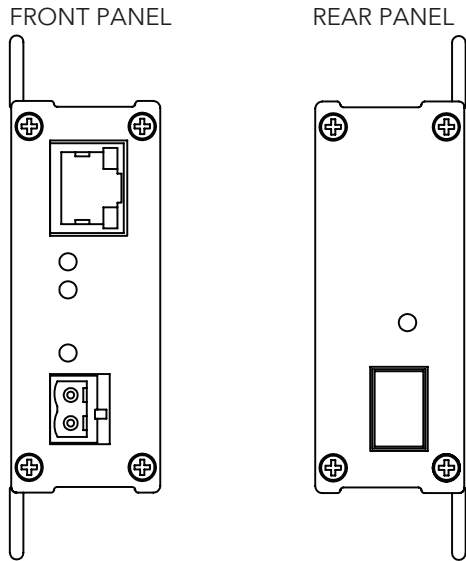


FIGURE 12 - CNFESFPMCPOE60M MEDIA CONVERTER

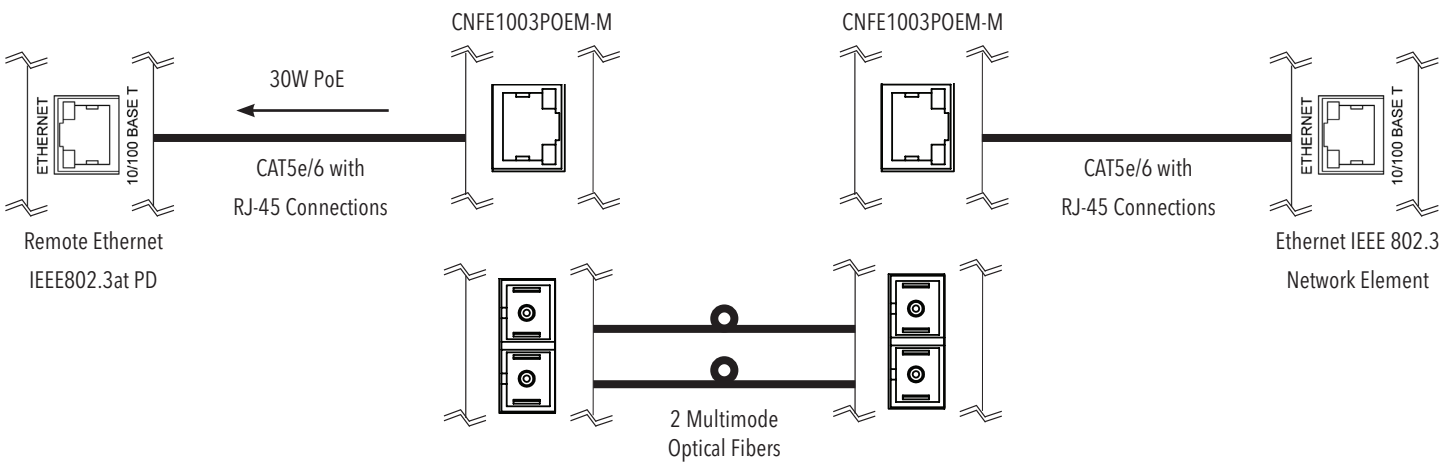


**FIGURE 13 - LED INDICATORS**

	<b>FX LINK/ACT</b>	<b>POE</b>	<b>POWER</b>
<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 14 - POSSIBLE ETHERNET CONFIGURATION**

*Ethernet IEEE 802.3 Network Element determined by user.*



**FIGURE 15 - POE PIN ASSIGNMENT**

RJ-45 port supports IEEE802.3at

End-point: Positive (VCC+): RJ45 pin 1, 2 or 4, 5  
 Negative (VCC-): RJ45 pin 3, 6 or 7,8

Data: (1, 2, 3, 6)



# 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 power supply.

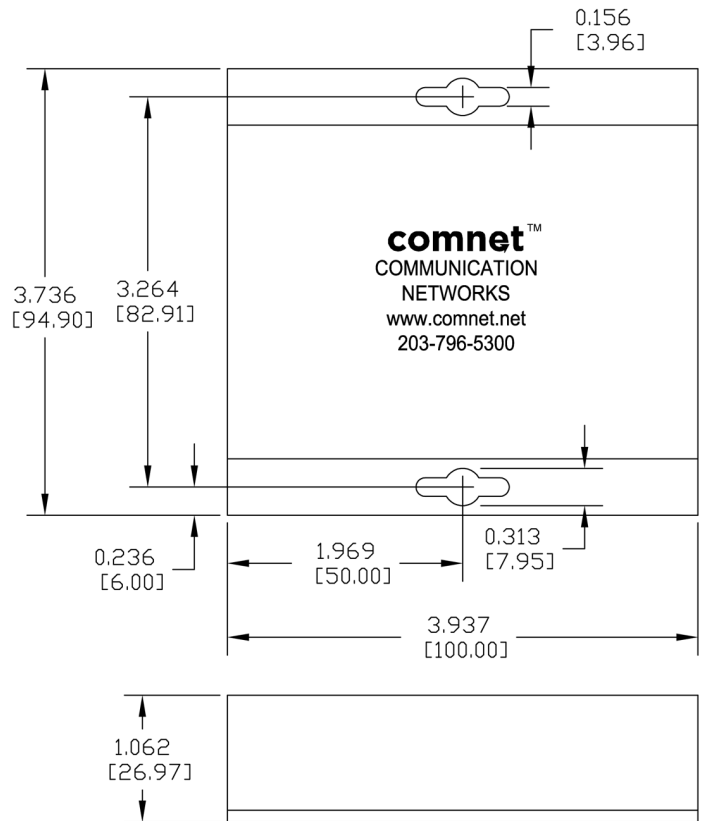
### IMPORTANT SAFEGUARDS:

**A) Elevated Operating Ambient** - 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 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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