# comnet

**INSTALLATION AND OPERATION MANUAL**

# CNFE8US Series
10/100 Mbps Ethernet 8 port unmanaged switch
4 Ports: Electrical ↔ 4 Ports: SFP Optical
8 Ports: Electrical
8 Ports: SFP Optical

The ComNet™ CNFE8US Series Ethernet 8 port unmanaged switches are designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP options or 10/100 Mbps data over CAT5E/6 electrical cable. These units integrate eight independent 10/100 Mbps channels in a single package.

The CNFE8FX4TX4US and CNFE8FX8US require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors.

All electrical interfaces will Auto-Negotiate to 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interfaces operate at a 100 Mbps Ethernet rate.

The CNFE8US Series models are environmentally hardened to operate in demanding environments.

LED indicators are provided for confirming equipment operating status.

These units are interchangeable between stand-alone or card mount configurations. See **Figure A** on **Page 8** for installation instructions.

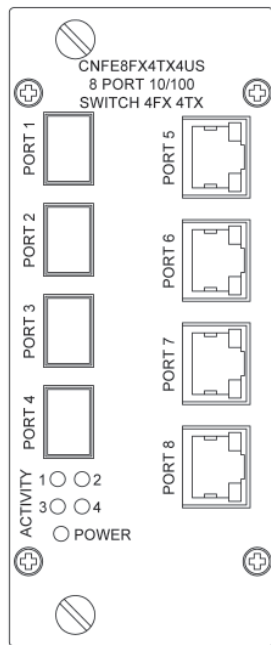See **Figures 1 – 7** for complete installation details.

## FIGURE 1 – CNFE8FX4TX4US



OPTICAL FIBERS
DETERMINED BY
SELECTION OF SFP
MODULES

BLACK
BLACK WITH WHITE STRIPE

## FIGURE 2 – CNFE8FX4TX4US

FRONT PANEL                    REAR PANEL



NOTE: Remove Electrical Connector for Rack Mount Units

## FIGURE 3 – CNFE8FX8US



OPTICAL FIBERS
DETERMINED BY
SELECTION OF SFP
MODULES

—— BLACK
- - BLACK WITH WHITE STRIPE

## FIGURE 4 – CNFE8FX8US

FRONT PANEL

REAR PANEL



NOTE: Remove Electrical Connector for Rack Mount Units

## FIGURE 3 – CNFE8TX8US



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www.comnet.net
203-796-5300

BLACK
BLACK WITH WHITE STRIPE
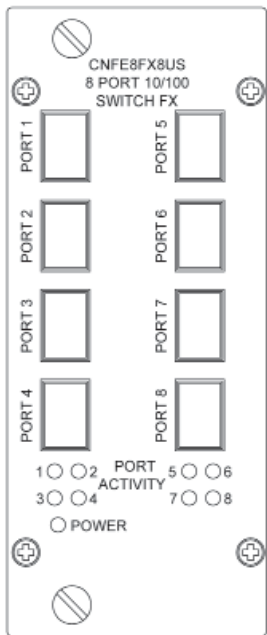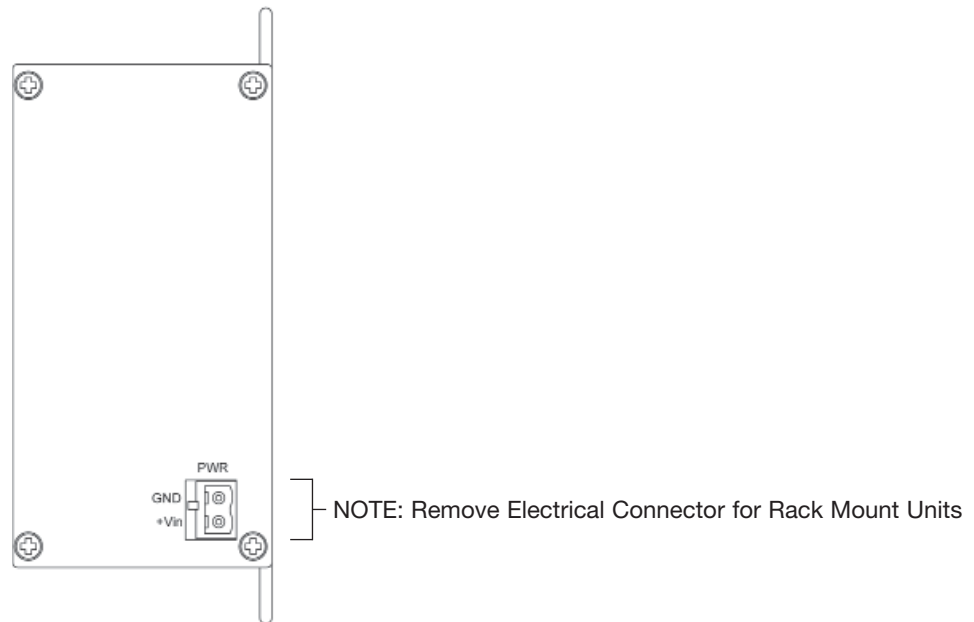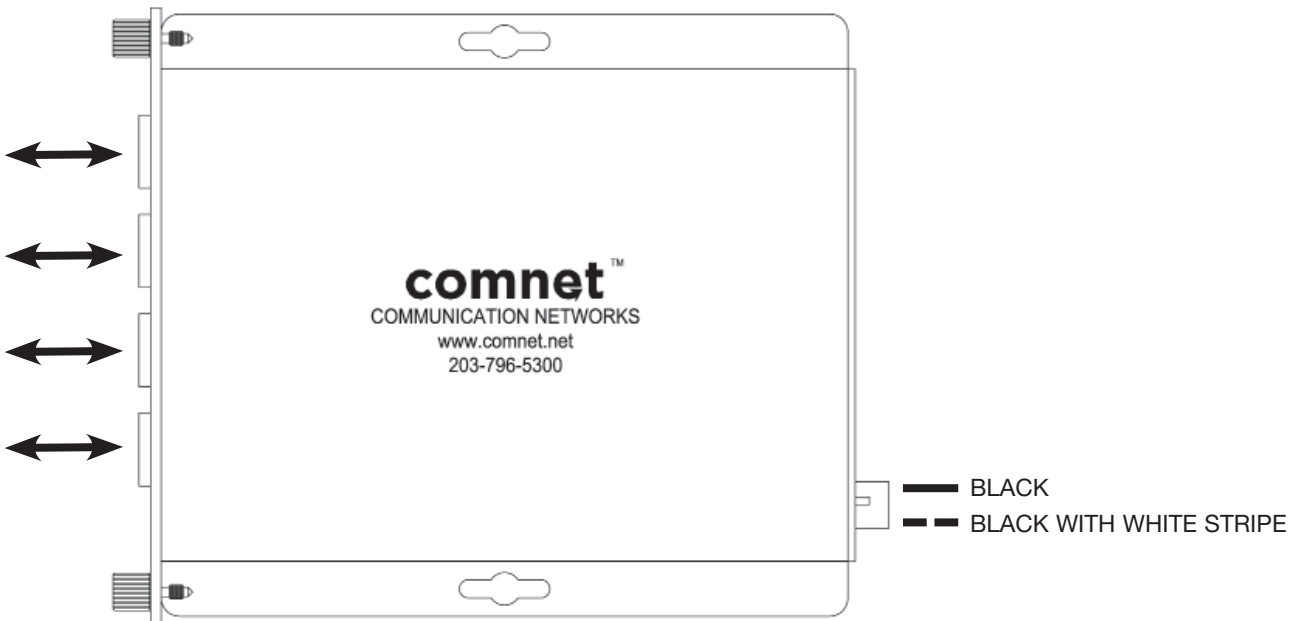
## FIGURE 4 – CNFE8TX8US

FRONT PANEL                    REAR PANEL



CNFE8TX8US
8 PORT 10/100
SWITCH TX

PORT 1  PORT 5
PORT 2  PORT 6
PORT 3  PORT 7
PORT 4  PORT 8

POWER

PWR
GND
+Vin

NOTE: Remove Electrical Connector for Rack Mount Units
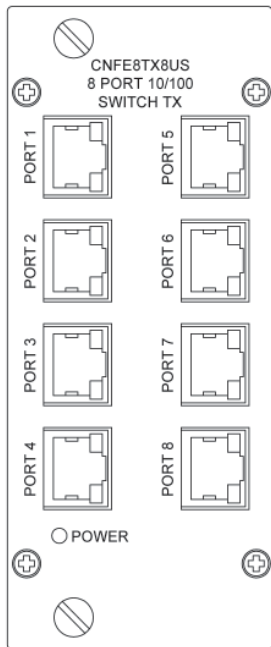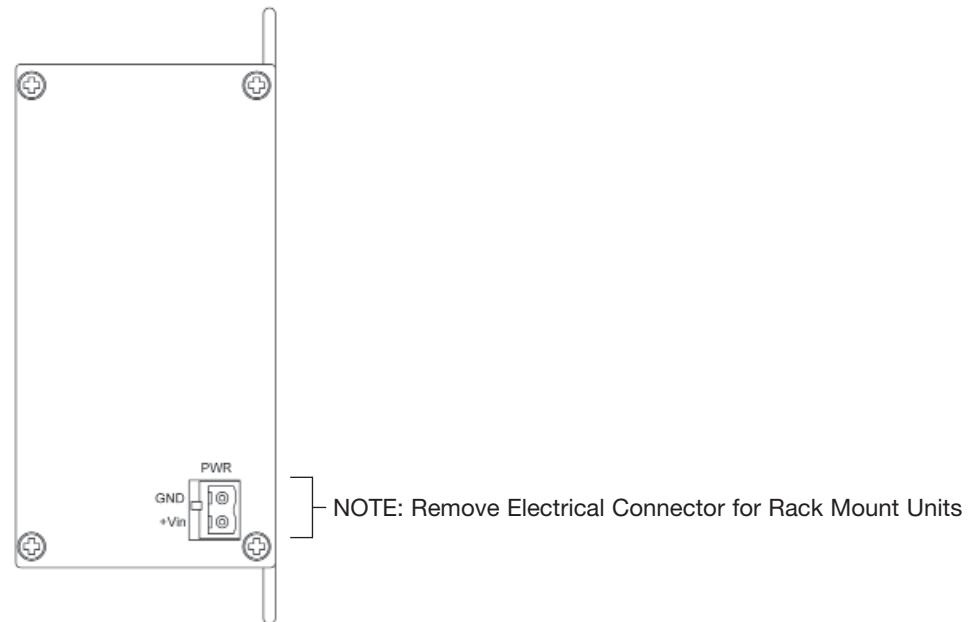
## FIGURE 6 – POSSIBLE ETHERNET CONFIGURATION

*Ethernet IEEE 802.3 Network Element determined by user.*
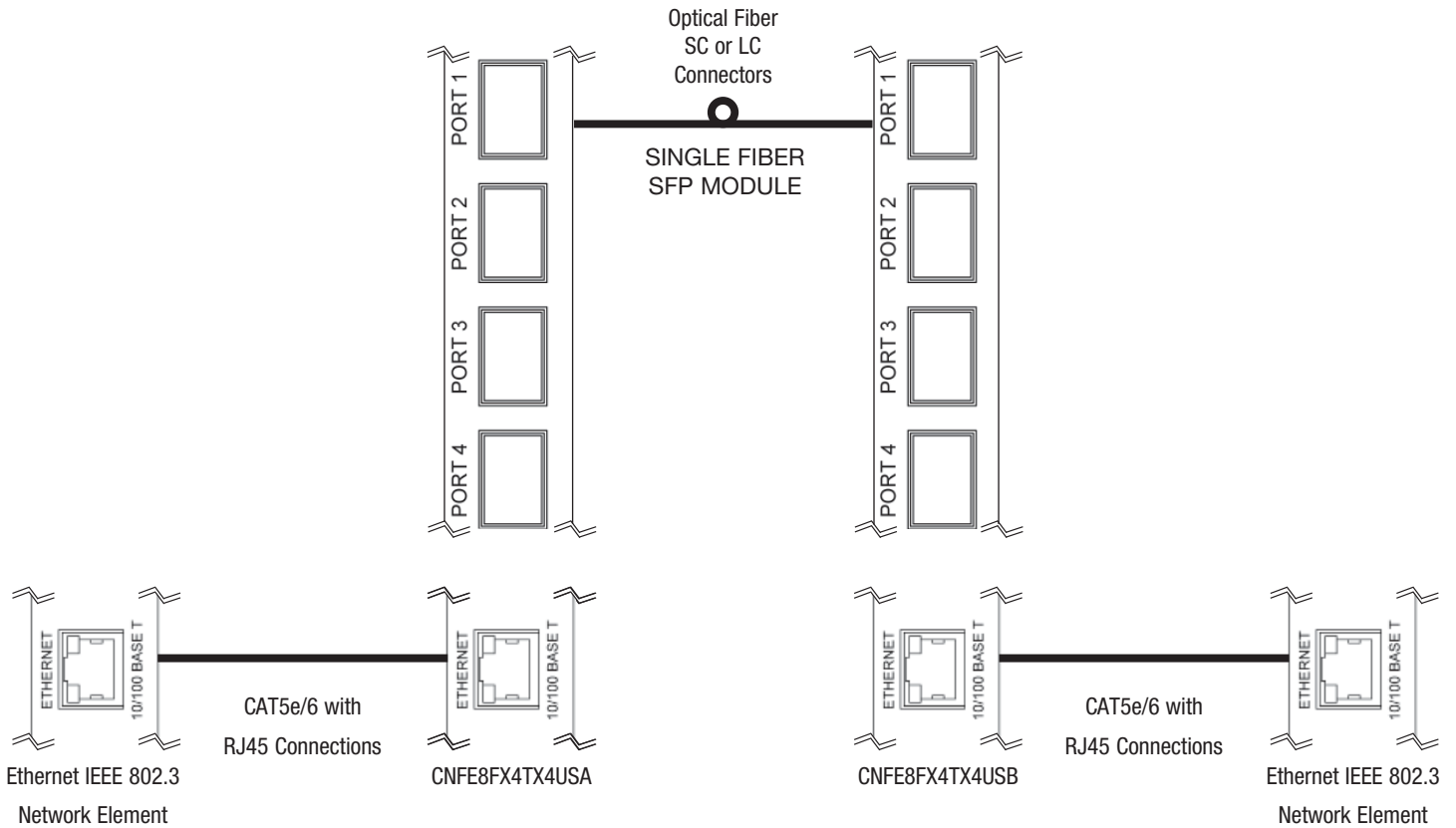


## FIGURE 7 – LED INDICATORS

|          | ACTIVITY (SFP)    | RJ45                          | POWER             |
|----------|-------------------|-------------------------------|-------------------|
| GREEN    | Link/Activity     | Link/Activity                 | Unit powered up   |
| YELLOW   | –                 | Highest Data Rate Negotiated  | –                 |
| OFF      | Unit Powered Down | No Link/Activity              | 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.

## 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 @ 2A.

## 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 (Tma) 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™ two slot module*
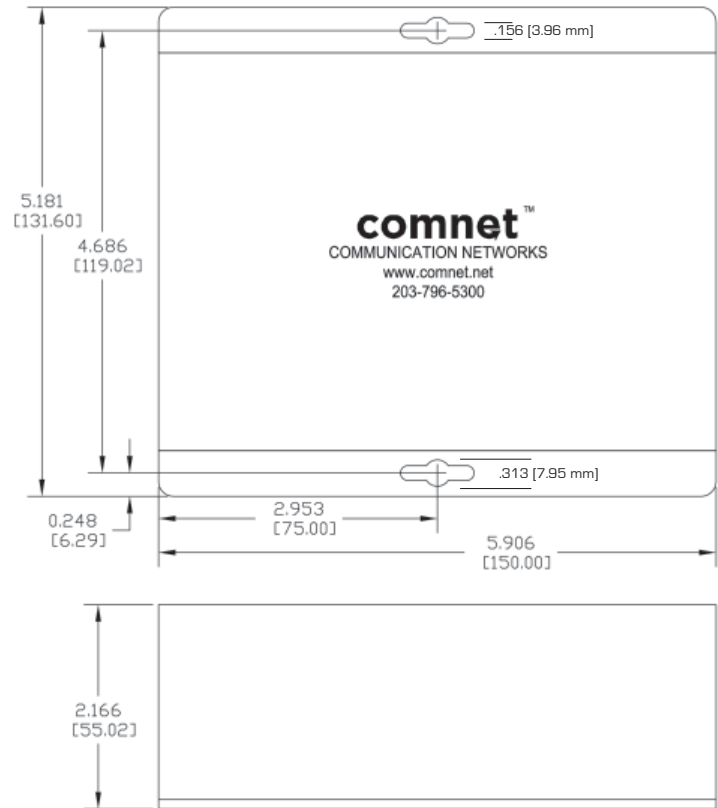
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