



INSTALLATION AND OPERATION MANUAL

CNFE6+2USPOE

10/100TX Drop/Insert/Repeat
6TX/2FX Ethernet Switch with PoE

The ComNet CNFE6+2USPOE provides 8 Ethernet ports operating at 10/100 Mbps and is designed to combine six electrical ports into a second optical port that forwards this data to the next CNFE6+2USPOE. The optical ports are designed to forward the data from the six electrical ports to its up network. In addition, the electrical ports can supply up to thirty (30) watts of power ("Power Over Ethernet"), based on IEEE802.3at standard, to remote Ethernet devices. This product uses ST optical connections and can be supplied to operate over Singlemode or Multimode optical fiber.

There is no programming required to use this product. It is "Plug-and-Play". Port 8 can be used to monitor the data flow from the optical port to permit "local" observation and diagnostics of the equipment when the diagnostic switch is set to on. LED indicators confirm the operating status of this device. The ComNet CNFE6+2USPOE may be either wall mounted, rack mounted ("ComFit" packaging) or DIN-rail mounted with the use of the ComNet DINBKT1 adapter. See **Figures A** on **Page 5** for mounting instructions.

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

FIGURE 1 - TYPICAL APPLICATION

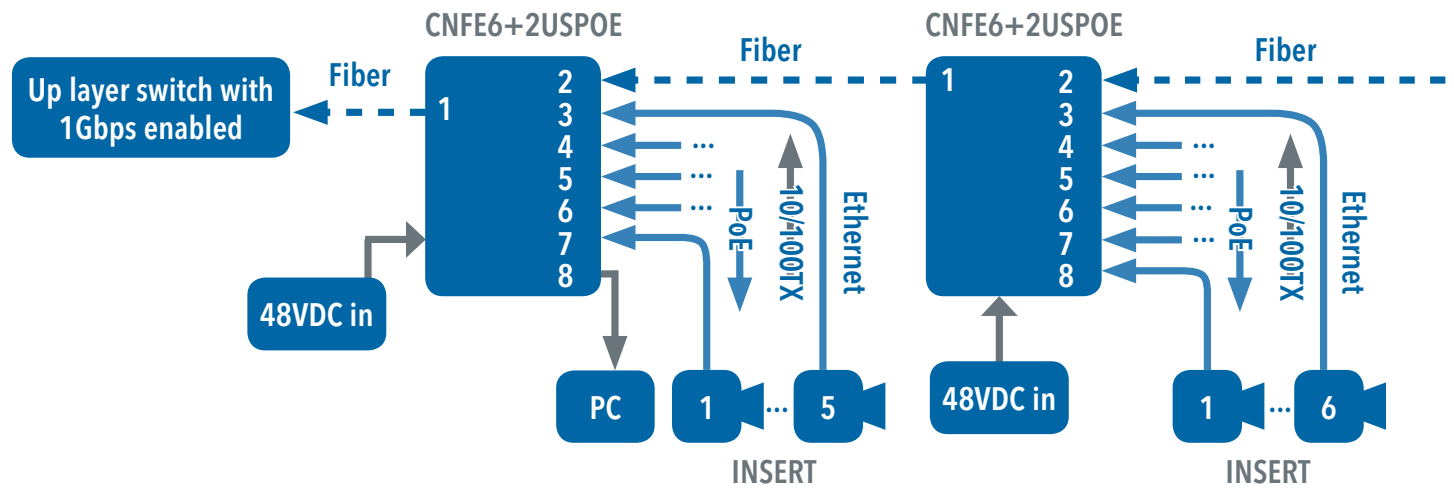


FIGURE 2 - CNFE6+2USPOE



FIGURE 3 - CNFE6+2USPOE

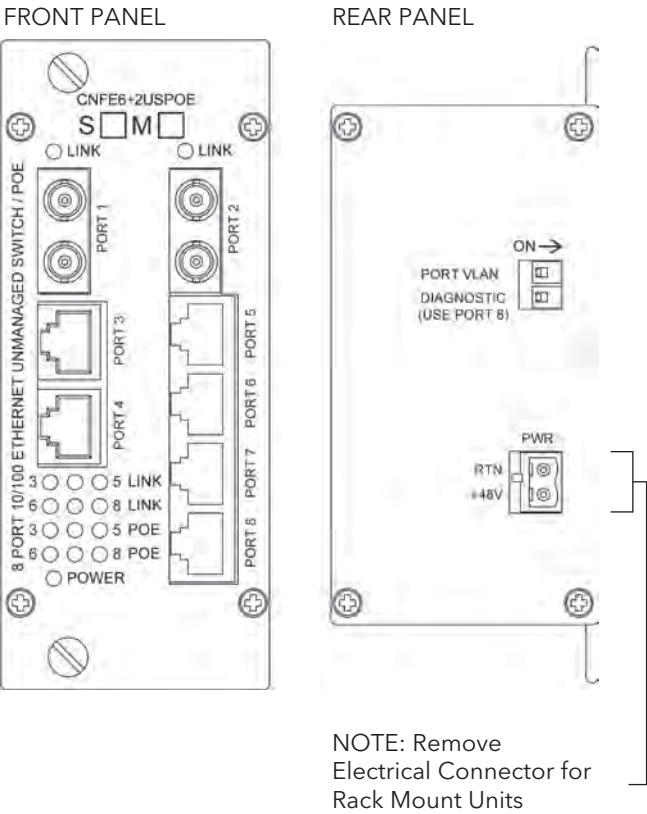
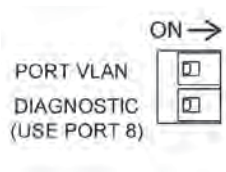


FIGURE 4 - REAR SWITCH SETTINGS



EFFECT	PORT Uplink	DIAGNOSTIC
Uplink & Diagnostic Enabled	ON	ON
Uplink Enabled, Diagnostic Disabled	ON	OFF
Uplink & Diagnostic Disabled	OFF	ON
Uplink & Diagnostic Disabled	OFF	OFF

NOTE: Diagnostic only functions when Uplink is enabled. When Uplink and Diagnostic are enabled, Port 8 can be connected to all other ports from 1 - 7.

FIGURE 5 - LED INDICATORS

	LINK (PORT 1 & 2)	LINK (PORT 3 - 8)	POE (PORT 3 - 8)	POWER
SOLID	Link Up	Link Up	Power Supplied to PD	Power Applied
BLINKING	Data Activity	Data Activity	POE Negotiating	-
OFF	No Data Link	No Data Link	No Power Supplied	Power Not Applied

FIGURE 6 - APPLICATION DIAGRAM WITHOUT MULTICAST TRAFFIC
IGMP Disabled, Uplink disabled on the units.

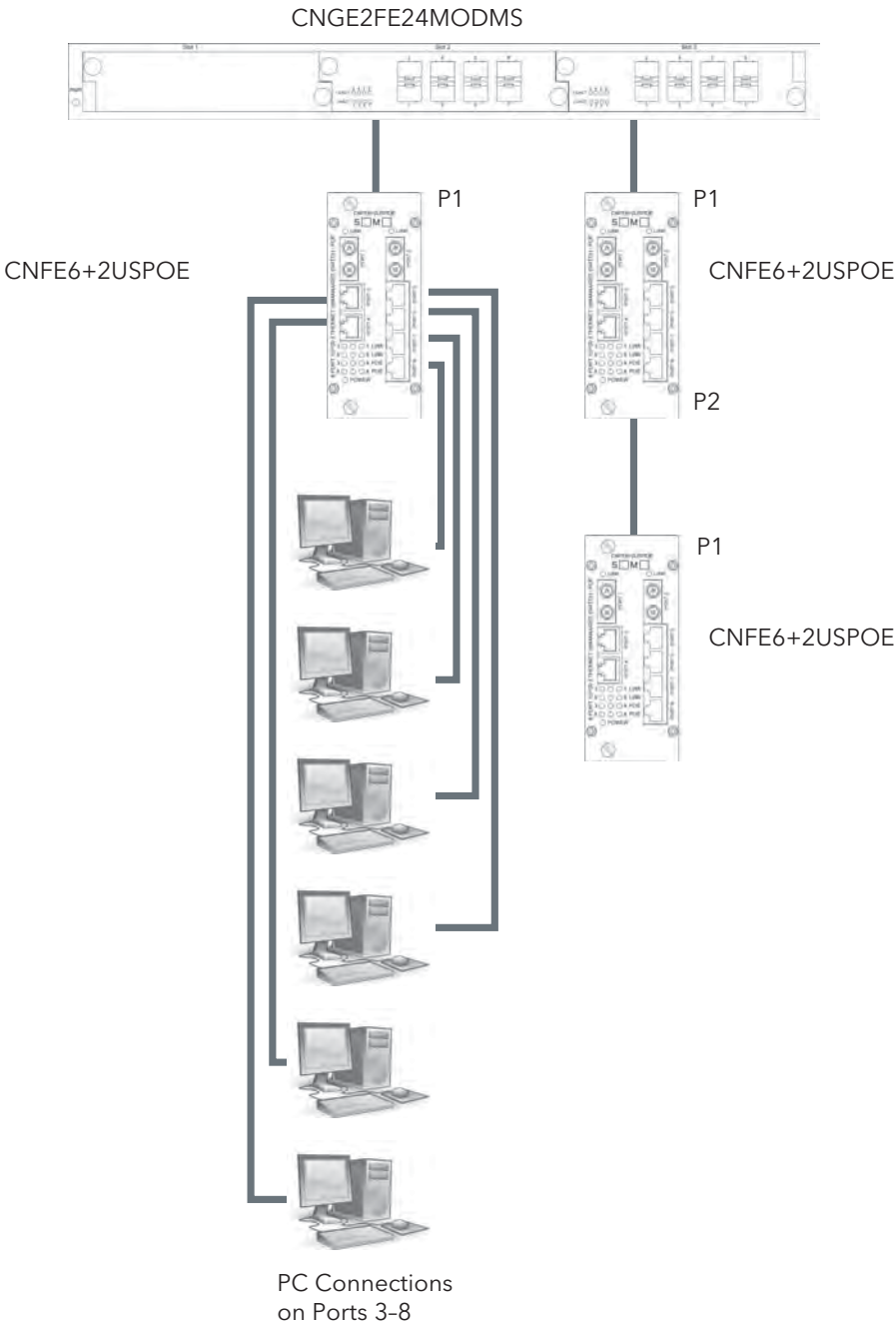
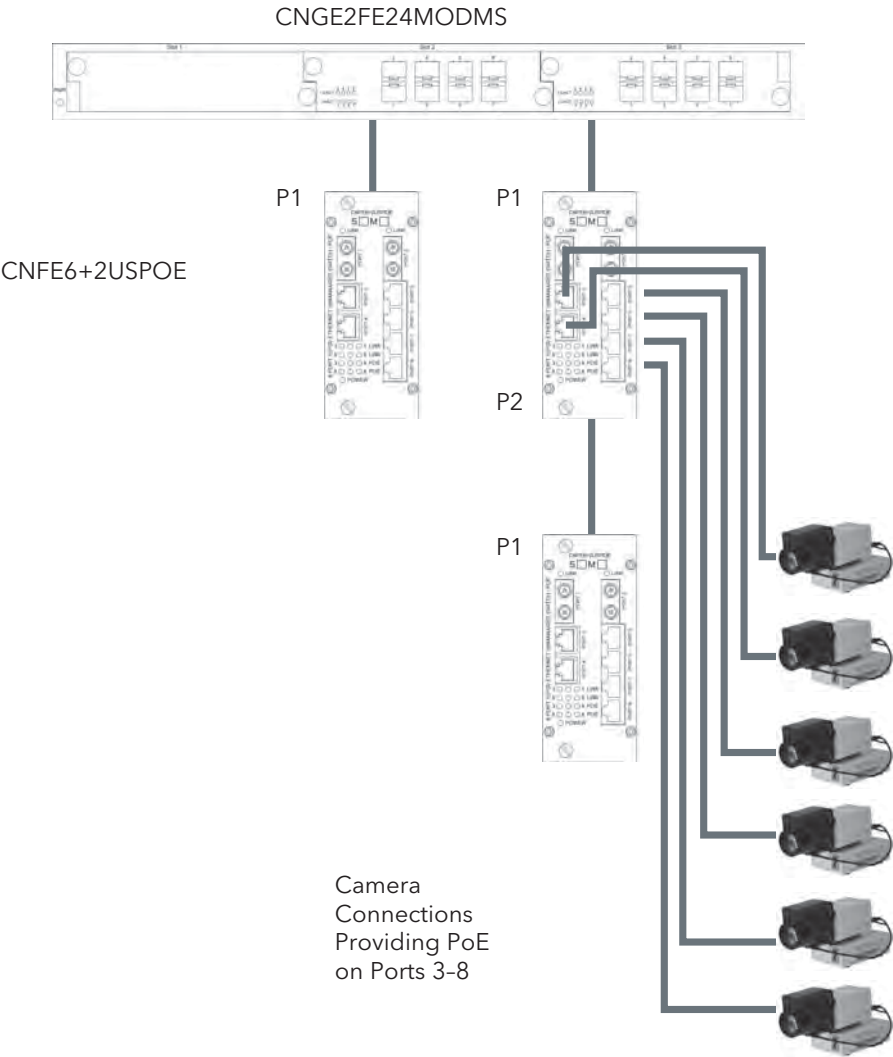


FIGURE 7 - APPLICATION DIAGRAM WITH MULTICAST TRAFFIC
IGMP Enabled, Uplink enabled on the units



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.

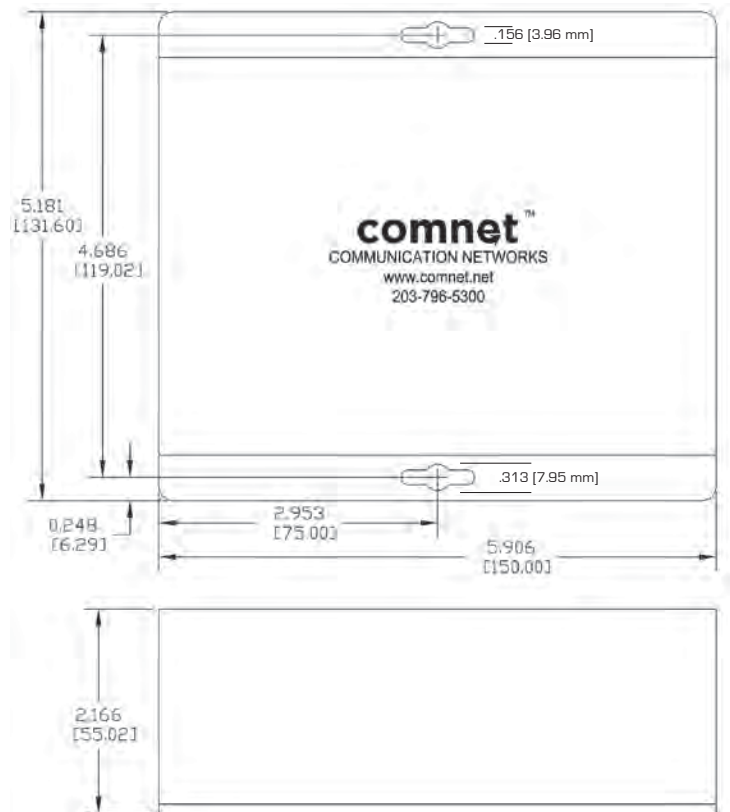
WARNING: Unit is to be used with a Listed Class 2 or LPS power supply.

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™ two slot module



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