



## INSTALLATION AND OPERATION MANUAL

### CNFE4+1SMS(M,S)2

FOUR PORT 10/100T(X) + ONE PORT 100FX  
ETHERNET SELF-MANAGED SWITCH

The ComNet™ CNFE4+1SMS(M,S)2 is a five-port self-managed Ethernet switch with uplink management functionality. It provides four ports operating at 10/100Mbps and is designed to combine Ethernet data from the four electrical ports into a single optical port and forward that data to the next network device, using two-fiber ST or SC optical connectors. There is no programming required to use this switch. The ComNet CNFE4+1SMS comes pre-programmed, preventing network video flooding with DIP switch selection of the fiber port as uplink or as an unmanaged switch. It is "Plug-and-Play" easy to use.

LED indicators confirm the operating status of this device. See **Figure 4** on **Page 3** for an explanation of the indicators.

The ComNet CNFE4+1SMS may be either wall mounted, rack mounted ("ComFit" packaging) or DIN-rail mounted with the use of the ComNet DINBKT1 adapter. See **Figure A** on **Page 4** for mounting instructions.

See **Figures 1 – 5** for complete installation details.

[illegible]

The diagram illustrates the front and rear panels of the CNFE4+1SMS module. The front panel (left) features a vertical label "CNFE4+1SMS SELF-MANAGED ETHERNET SWITCH" on the left side. It includes a power button (PWR) and a reset button (LA) at the top, both with circular icons. Below these are two RJ45 ports labeled TX and RX. Further down are five LAN ports labeled LA P4, LA P3, LA P2, and LA P1, each with a corresponding pin configuration diagram. The rear panel (right) shows a power button (PWR) and a reset button (LA) at the top. It also features a power button (PWR) and a reset button (LA) at the bottom, both with circular icons. The central area of the rear panel contains a label "PORT 5 UP LINK ENABLED ON →" and a corresponding pin configuration diagram. At the bottom right, there is a power button (PWR) and a reset button (LA) with a label "GND +Vin" and a pin configuration diagram.


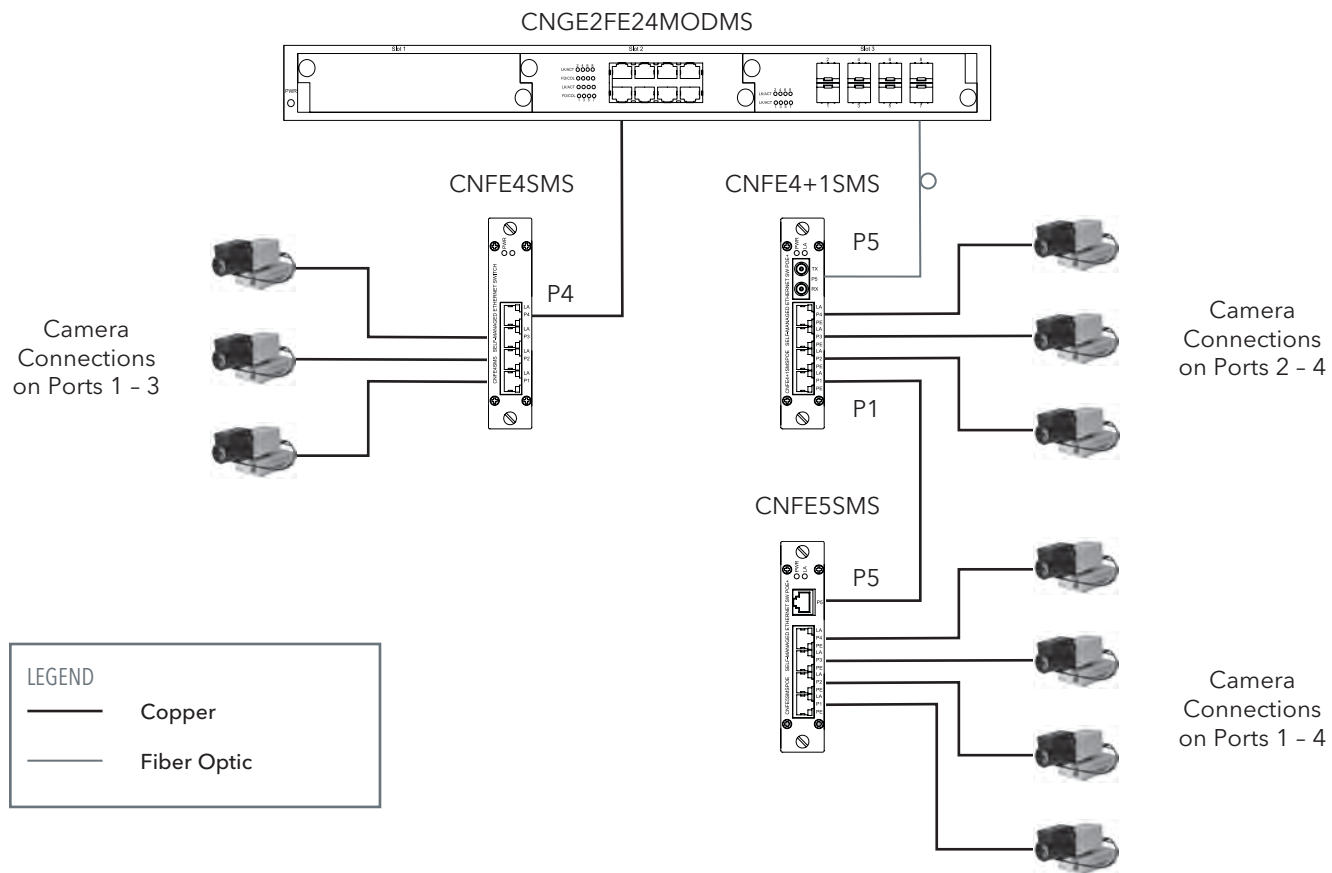
PORT 5 UP LINK ENABLED ON →	
	
<b>EFFECT</b>	<b>UPLINK</b>
Uplink Enabled	ON
Uplink Disabled	OFF

FIGURE 4 - LED INDICATORS

	LINK (P5)	LINK (P1 - P4)	PWR
<b>SOLID</b>	Link Up	Link Up	Power Applied
<b>BLINKING</b>	Data Activity	Data Activity	-
<b>OFF</b>	No Data Link	No Data Link	Power Not Applied

FIGURE 5 - APPLICATION DIAGRAM WITH MULTICAST TRAFFIC

IGMP Enabled on CNGE2FE24MODMS, Uplink enabled on the units



# MECHANICAL INSTALLATION INSTRUCTIONS

## INSTALLATION CONSIDERATIONS

This switch 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.

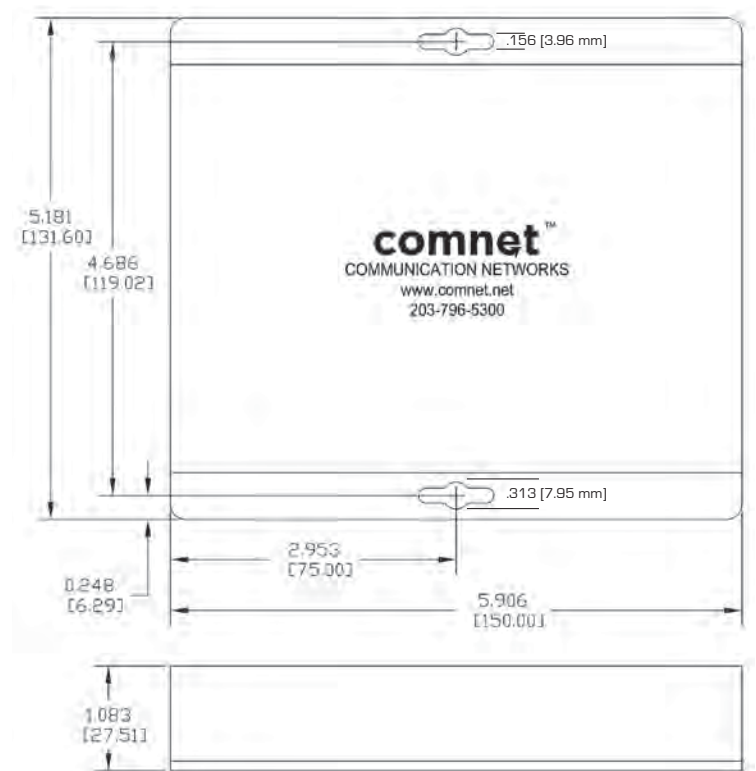
**WARNING:** Unit is to be used with a Listed Class 2 or LPS power supply.

#### 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<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 standard ComNet™ one slot module*



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