comnet
Communication Networks

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.
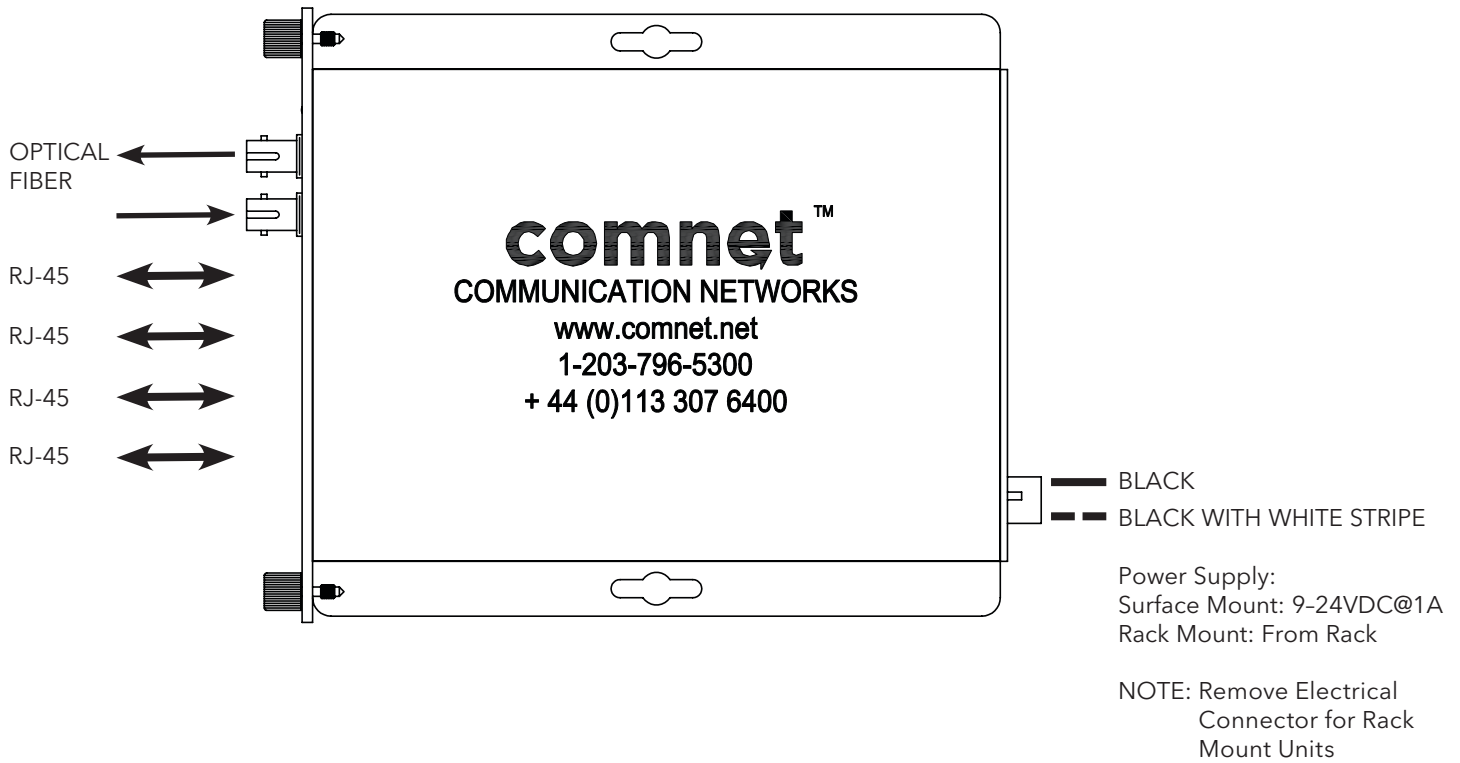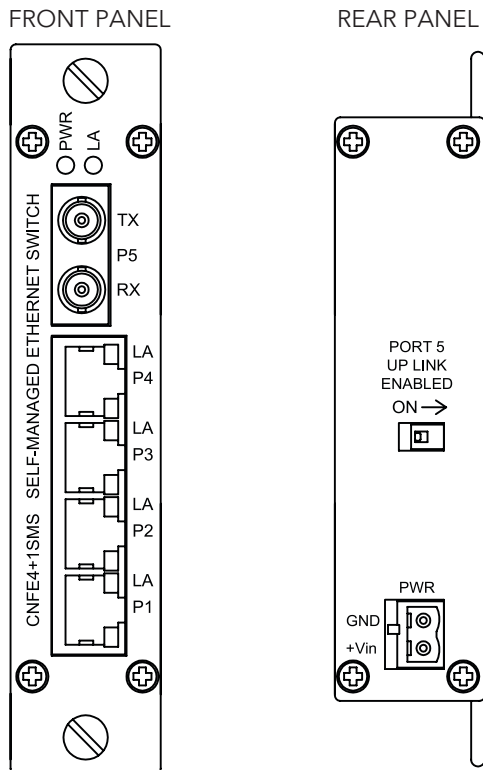
FIGURE 1 – CNFE4+1SMS

OPTICAL
FIBER

RJ-45

RJ-45

RJ-45

RJ-45

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BLACK
BLACK WITH WHITE STRIPE

Power Supply:
Surface Mount: 9–24VDC@1A
Rack Mount: From Rack

NOTE: Remove Electrical
          Connector for Rack
          Mount Units

FIGURE 2 – CNFE4+1SMS

FRONT PANEL   REAR PANEL

PWR
LA

CNFE4+1SMS   SELF-MANAGED ETHERNET SWITCH

TX
P5
RX

LA
P4

LA
P3

LA
P2

LA
P1

PORT 5
UP LINK
ENABLED
ON →

PWR

GND
+Vin

FIGURE 3 – UPLINK SWITCH SETTINGS

PORT 5
UP LINK
ENABLED

ON →

EFFECT	UPLINK
Uplink Enabled	ON
Uplink Disabled	OFF

FIGURE 4 – LED INDICATORS

	LINK (P5)	LINK (P1 – P4)	PWR
SOLID	Link Up	Link Up	Power Applied
BLINKING	Data Activity	Data Activity	–
OFF	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

CNGE2FE24MODMS

CNFE4SMS

CNFE4+1SMS

CNFE5SMS

Camera Connections on Ports 1 – 3

Camera Connections on Ports 2 – 4

Camera Connections on Ports 1 – 4

LEGEND

—— Copper

—— Fiber Optic
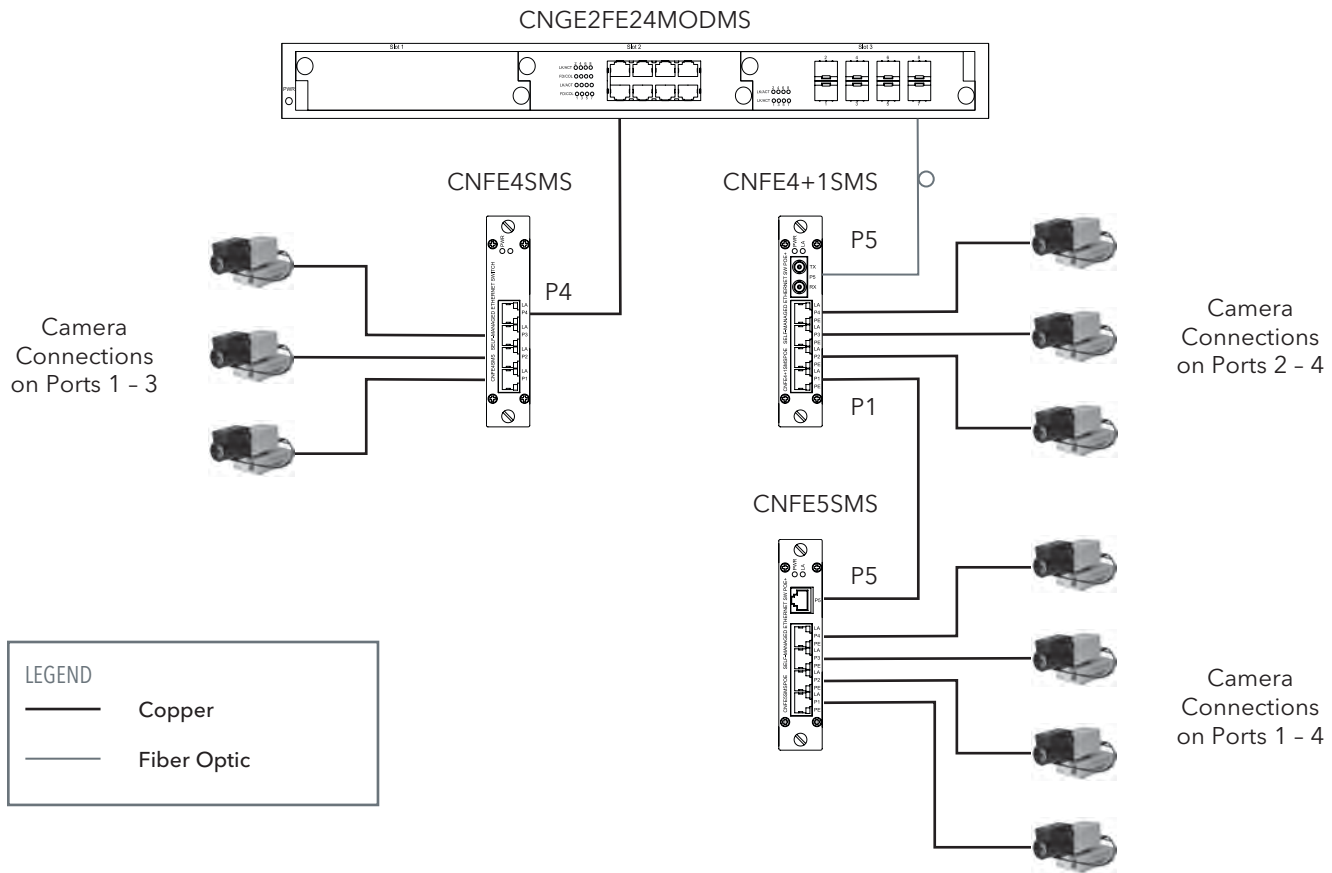
MECHANICAL INSTALLATION INSTRUCTIONS

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 (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™ one slot module
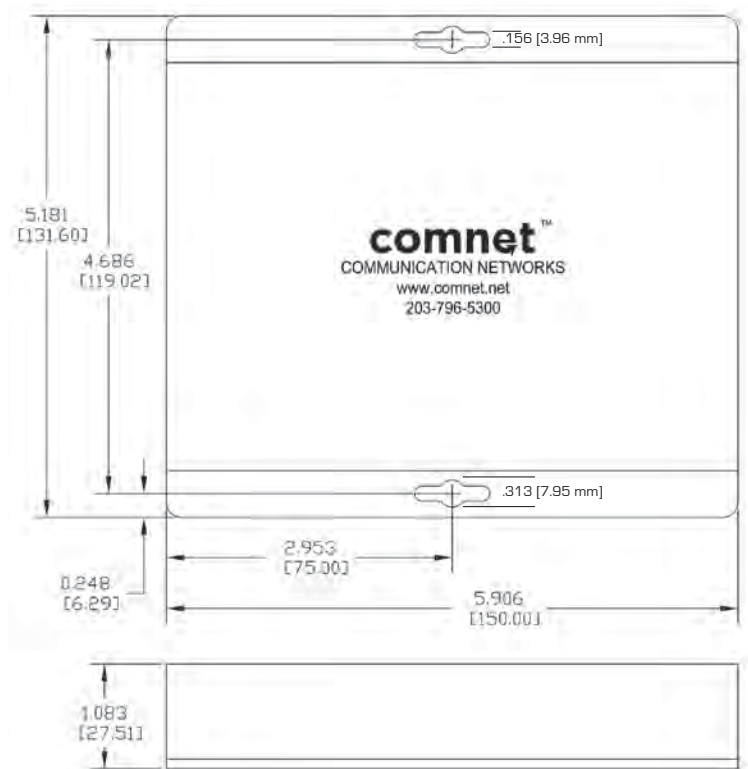
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