



-40° TO +75°



802.3at



4TX + 1FX



The ComNet CNFE4+1SMS(M,S)2POE is a five-port Ethernet switch with uplink management functionality and provides 4 copper ports operating at 10/100 Mbps and is designed to combine four electrical ports into a single optical port that forwards this data to the next network device. The fiber interface has an option of SC or ST connector type. There is no programming required to use this product. The CNFE4+1SMS(M,S)2POE comes pre-programmed, preventing network video flooding with dip switch selection of fiber port as uplink or as an unmanaged switch. Ports 1-4 can supply up to thirty watts of power ("Power over Ethernet") and incorporate PoE+ features based on the IEEE 802.3at standard. It is

## FEATURES

- › No Programming Required
- › 10/100 Mbps Ethernet
  - 4 × 10/100 BASE-T/TX electrical ports supporting PoE+
  - 100 BASE-FX optical port
- › Electrical ports support Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.
- › Optical port supports 100 Mbps full duplex data
- › Pre-programmed Port for uplink
- › Automatic MDI/MDI-X crossover
- › Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and CALTRANS Traffic Signal Control Equipment Specifications
- › Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events.
- › No in-field optical adjustments required
- › Power and Activity status LED indicators
- › Hot-swappable rack modules
- › Interchangeable between stand-alone or rack mount use - ComFit
- › IEEE 802.3 compliant

## APPLICATIONS

- › IP Video Applications
- › 10/100 Mbps Ethernet
- › High Speed Computer Links

## SPECIFICATIONS

### Data

Data Interface	Ethernet
Data Rate	10/100 Mbps
	IEEE 802.3 Compliant
	Full Duplex or Half Duplex Electrical Ports/Full Duplex Optical Port

### Number Of Fibers

2

### Wavelength

1310nm, MM and SM

### Optical Emitter

Laser Diode

### Connectors

Optical	SC/ST1
Power	Terminal Block
Data	RJ45

### LED Indicators

- Optical Link/Data Activity
- Electrical Link/Data Activity
- Power
- Power over Ethernet (PoE+)

### Power

Operating Voltage	48 VDC
Power Consumption	12W Max

### Electrical & Mechanical

Surface Mount	Wall or Flat Surface Screw Attachment
Number of Rack Slots	1 <sup>2</sup>
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
Shipping Weight	<2 lbs./0.9 kg

### Environmental

MTBF	>100,000 hours
Operating Temp	-40° C to +75° C
Storage Temp	-40° C to +85° C
Relative Humidity	0% to 95% (non-condensing) <sup>2</sup>

[1] Although the units may be mounted inside a ComNet rack they cannot be powered from the built-in rack PSU; they must be powered by an external 48VDC PSU instead.

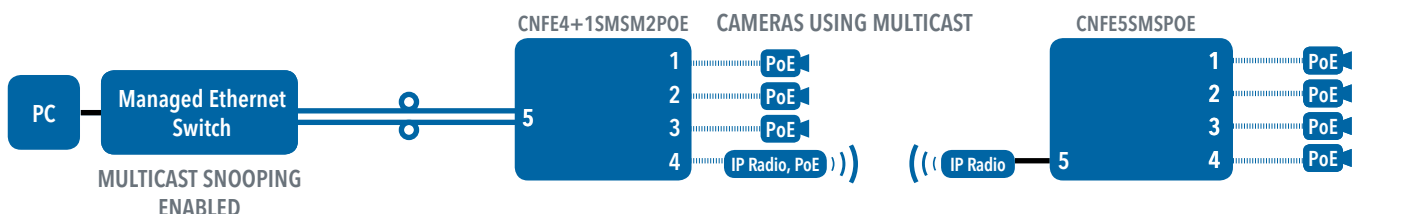
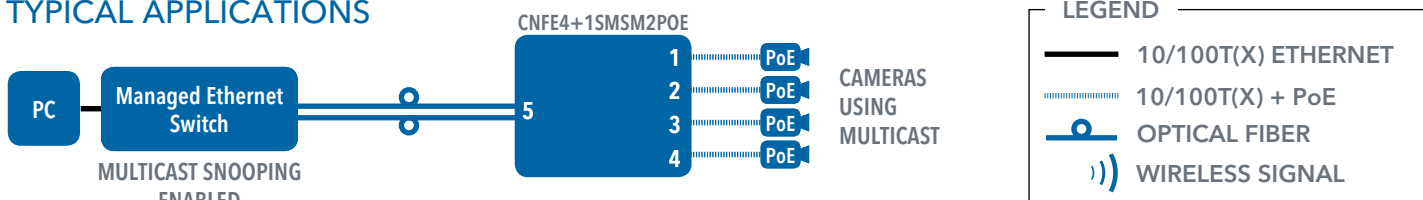


## ORDERING INFORMATION

Part Number	Description
CNFE4+1SMSM2POE	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, with PoE+ on 4TX, 2 Fiber, Multimode 62.5/125µm, 16 dB, up to 3 km (2 mi)
CNFE4+1SMSS2POE	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, with PoE+ on 4TX, 2 Fiber, Single Mode 9/125µm, 16 dB, up to 48 km (30 mi)
CNFE4+1SMSM2POE/SC	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, with PoE+ on 4TX, 2 Fiber SC, Multimode 62.5/125µm, 16 dB, up to 3 km (2 mi)
CNFE4+1SMSS2POE/SC	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, with PoE+ on 4TX, 2 Fiber SC, Single Mode 9/125µm, 16 dB, up to 48 km (30 mi)
Options	[2] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) Power Supply sold separately, available from ComNet: PS48VDC-5A DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT1)

Note: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

## TYPICAL APPLICATIONS



Low Power Consumption