

APPEARANCE



10/100TX

"Plug and Play" - No
programming required!

DESCRIPTION

The ComNet™ CNFE4+1SMS(M,S)2POE is a five-port Ethernet switch with uplink management functionality and provides 4 copper ports operating at 10/100Mbps 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 ComNet CNFE4+1SMSPOE 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 (30) watts of power ("Power over Ethernet") and incorporate PoE+ features based on the IEEE 802.3at standard. It is "Plug-and-Play". LED indicators confirm the operating status of this device. The ComNet CNFE4+1SMSPOE may be either wall mounted, rack mounted ("ComFit" packaging) or DIN-rail mounted with the use of the ComNet DIN BKT1 adapter.

APPLICATIONS

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

FEATURES

- › No Programming Required
- › 10/100 Mbps Ethernet
 - 4 × 10/100 BASE-T/TX electrical ports supporting PoE+
 - 1 × 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
- › Designed to meet 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 the Caltrans Specification for Traffic Signal Control Equipment.
- › Voltage transient protection on all power and signal input/output lines provides unconditional 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
- › Lifetime Warranty

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 1310/1550 nm, MM and SM

Optical Emitter Laser Diode

Connectors

Optical: SC/ST
 Power: Terminal Block
 Data: RJ-45

LED Indicators

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

Electrical & Mechanical

Power: 48VDC@2.6A
 Surface Mount: Wall or Flat Surface Screw Attachment
 Number of Rack Slots: 1†
 Current Protection: Automatic Resettable
 Solid-State Current Limiters
 Circuit Board: Meets IPC Standard
 Size (in./cm) (L×W×H): 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)‡



† 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.

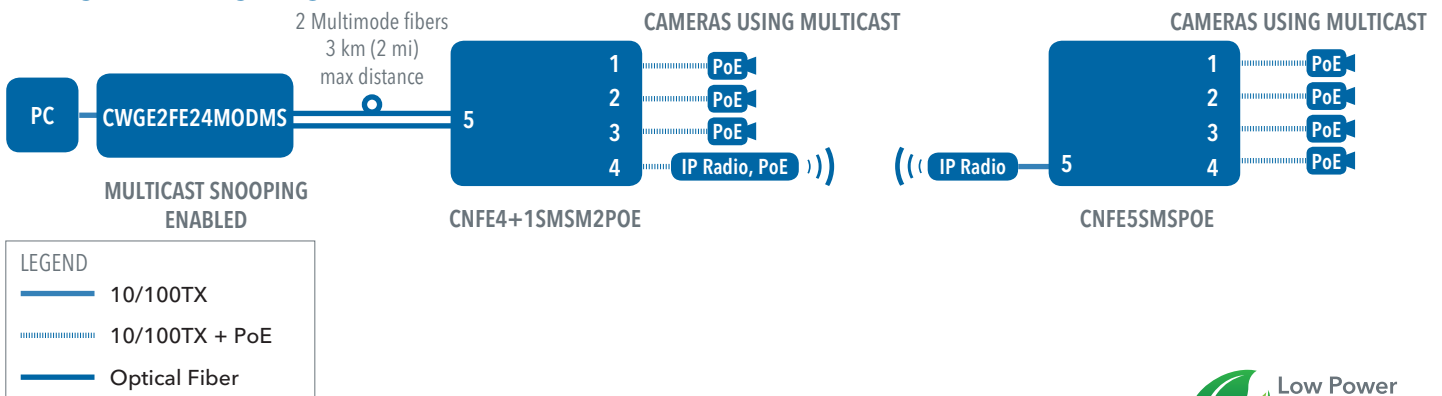
‡ May be extended to humidity with condensation conditions by adding suffix '/C'

ORDERING INFORMATION

Part Number	Description	Fibers Required	Fiber	Optical Power Budget	Maximum Distance†
CNFE4+1SMSM2POE	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, 4TX, with PoE+ on 4TX	2	Multimode‡ 62.5/125µm	16 dB	3 km (2 mi)
CNFE4+1SMSS2POE	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, 4TX, with PoE+ on 4TX	2	Single Mode‡ 9/125µm	16 dB	48 km (30 mi)
Options	Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) or '/SC' for SC Optical Connector 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 APPLICATION



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