10/100 4TX+1FX Ethernet Self-managed Switch

CNFE4+1SMS(M,S)2

INCLUDED HARDENED 4TX + 1FX

The ComNet™ CNFE4+1SMS(M,S)2 is a five-port self-managed Ethernet switch with uplink management functionality. It provides 4 ports operating at 10/100 Mbps 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 a switch selection that allows the fiber port to be used as an uplink or as an unmanaged switch. It is "Plug-and-Play" easy to use. LED indicators confirm the operating status of this device. 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.

FEATURES

› No Programming Required

› 10/100 Mbps Ethernet
- 4 × 10/100 BASE-T(X) electrical port
- 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 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

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/ST[1]
Power	Terminal Block
Data	RJ45

LED Indicators
- Optical Link/Data Activity
- Electrical Link/Data Activity
- Power

Power

Operating Voltage Range	9 to 24 VDC
Power Consumption	12W Max

Electrical & Mechanical

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	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)[2]

AGENCY COMPLIANCE

PART 15 COMPLIANT E322911 N24621

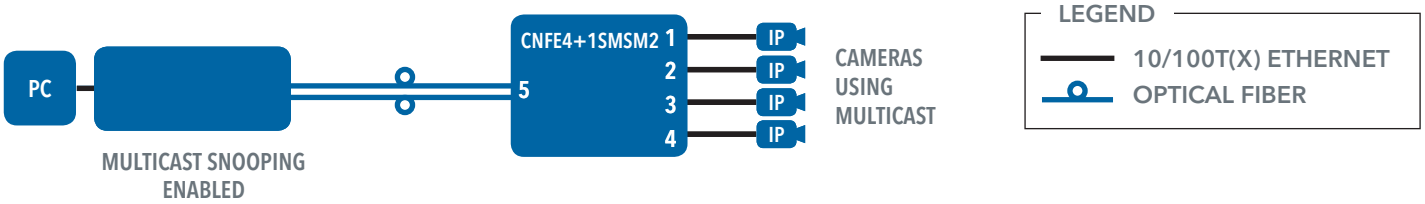
MADE IN THE USA

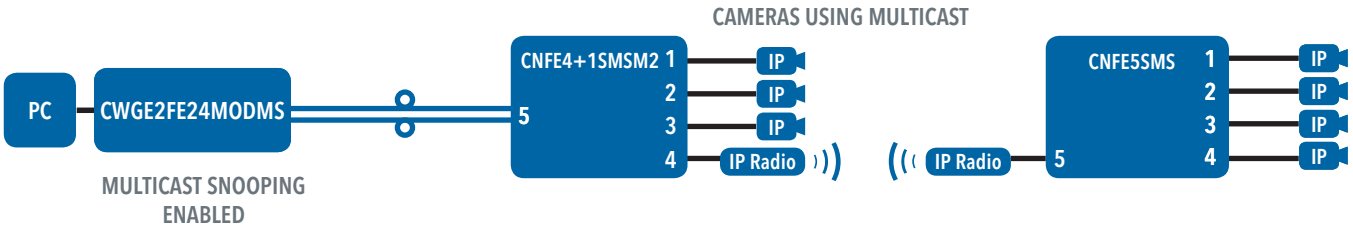
ORDERING INFORMATION

Part Number	Description
CNFE4+1SMSM2	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, 4TX, 2 Fiber, Multimode 62.5/125µm, 16 dB, up to 3 km (2 mi)
CNFE4+1SMSS2	5 Port 10/100 Mbps Ethernet Self-managed Switch 1FX, 4TX, 2 Fiber, Single Mode 9/125µm, 16 dB, up to 48 km (30 mi)
Included Accessories	DC Plug-in Power Supply, 90-264 VAC, 50–60 Hz
Options	[1] Add suffix '/SC' for SC Optical Connectors [2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) 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

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