

10/100 Mbps Ethernet 8 port unmanaged switch
 4 Ports: Electrical
 4 Ports: SFP Optical



(SFP) = Small Form-Factor Pluggable Module

Description

The ComNet™ CNFE8FX4TX4US Ethernet 8 port unmanaged switch is designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP options or 10/100 Mbps data over CAT5E/6 electrical cable. This unit integrates 4 independent 10/100 Mbps channels in a single package. The CNFE8FX4TX4US requires the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. The CNFE8FX4TX4US electrical interfaces will Auto-Negotiate to 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interfaces operate at a 100 Mbps Ethernet rate. The CNFE8FX4TX4US is environmentally hardened to operate in demanding environments. LED indicators are provided for confirming equipment operating status. These units are interchangeable between stand-alone or card mount configurations.

Applications

- 10/100 Mbps Ethernet
- High Speed Computer Links

PART NUMBER	DESCRIPTION
CNFE8FX4TX4US	10/100 Mbps Ethernet 8 port unmanaged switch

Features

- 10/100 Mbps Ethernet
 - 10/100 BASE-T/TX 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
- Automatic MDI/MDI-X crossover
- Transparent to data encoding/compatible with major data protocols
- 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. (In Process)
- Uses interchangeable SFP for fiber type, distance and connector (Ordered separately)
- 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, Activity and Port status LED indicators
- 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

FIBERS

1-8

CABLE

CAT5E/6

FIBER CONNECTORS

Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules

CONNECTORS

Power: Terminal Block
Data: RJ-45

LED INDICATORS

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

ELECTRICAL & MECHANICAL

Power: 12-24 VDC @ 700 mA
Surface Mount: From Rack
Rack Mount: 2
Number of Rack Slots: Automatic Resettable
Current Protection: Solid-State Current Limiters
Circuit Board: Meets IPC Standard
Size (in./cm) (LxWxH): 6.1 x 5.3 x 2.2 in.,
(15.5 x 13.5 x 5.6 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)†

† May be extended to condensation conditions

AGENCY COMPLIANCE



PART NUMBER	DESCRIPTION	DISTANCE
CNFE8FX4TX4US	8 Port 10/100 Mbps Ethernet Unmanaged Switch	See SFP Modules data sheet for optional distances, fiber type and connector type.
Accessories	12 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)	
Options	Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) Small Form-Factor Pluggable Modules (See SFP Data sheet)	

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.



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