10/100 Mbps Ethernet 8 Port Unmanaged Switches
4 × Electrical + 4 × SFP Optical; 8 × Electrical; 8 × SFP Optical

CNFE8US Series

The ComNet™ CNFE8US Series Ethernet 8 port unmanaged switches are 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. Eight independent 10/100 Mbps channels are integrated in a single package. The CNFE8FX4TX4US and CNFE8FX8US require the ordering of sold-separately interchangeable SFP* modules for fiber type, distance and connectors. The CNFE8US Series models are environmentally hardened to operate in demanding environments. LED indicators are provided for confirming equipment operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

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

› 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.

› Uses interchangeable SFP for fiber type, distance and connector (Ordered separately)

› 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, Activity and Port status LED indicators

› Hot-swappable rack modules

› Interchangeable between stand-alone or rack mount use – ComFit

› IEEE 802.3 compliant

› Lifetime Warranty

APPLICATIONS

› 10/100 Mbps Ethernet

› High Speed Computer Links

** Small Form-Factor Pluggable Module. Sold separately.*

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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]

(CNFE8FX4TX4US & CNFE8FX8US) Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules

Cable

CAT5E/6 (CNFE8FX4TX4US & CNFE8TX8US)

Connectors

Power	Terminal Block
Data	RJ45
Optical	SFP Dependent

Indicating LEDs

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

Power

Operating Voltage Range	9 to 24 VDC
Power Consumption	700 mA

Electrical & Mechanical

Number of Rack Slots	2
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	6.1 × 5.3 × 2.2 in (15.5 × 13.5 × 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)[2]

[1] Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652.

AGENCY COMPLIANCE
PART 15 COMPLIANT · E322911 · N24621

MADE IN THE USA

ORDERING INFORMATION

Part Number	Description
CNFE8FX4TX4US	8 Port 10/100 Mbps Ethernet Unmanaged Switch with 4 TX RJ45 Ports, 4 FX SFP Ports
CNFE8FX8US	8 Port 100 Mbps Ethernet Unmanaged Switch with 8 FX SFP Ports
CNFE8TX8US	8 Port 10/100 Mbps Ethernet Unmanaged Switch with 8 TX RJ45 Ports
Included Accessories	DC Plug-in Power Supply, 90-264 VAC, 50–60 Hz
Options	[2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) Small Form-Factor Pluggable Modules (See SFP Data sheet) 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.

Low Power Consumption

comnet Communication Networks
3 CORPORATE DRIVE | DANBURY, CONNECTICUT 06810 | USA | T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET
8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE | T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET