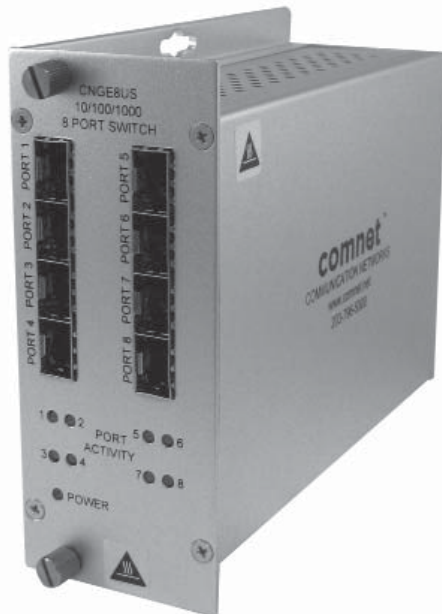


10/100/1000 Mbps 8 port Ethernet unmanaged switch  
4 Ports: Electrical ↔ 4 Ports: SFP Optical



### Description

The ComNet™ CNGE8US Ethernet 8 port unmanaged switches are designed to transmit and receive 10/100/1000 Mbps data using small form factor pluggable modules. Both are environmentally hardened to operate in demanding environments. LED indicators are provided for confirming equipment operating status. Plug-and-play design ensures ease of installation requiring no optical adjustments. These units are interchangeable between stand-alone or card mount configurations.

### Features

- 10/100/1000 Mbps Ethernet
  - 10/100/1000 BASE-T/TX electrical port
  - 1000 BASE-FX optical port
- Electrical ports support Auto-Negotiation for 10 Mbps, 100 Mbps or 1000 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.
- No In-field optical adjustments required
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Power and Port status LED indicators
- IEEE 802.3 compliant
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use
  - ComFit
- Lifetime Warranty

### Applications

- 10/100/1000 Mbps Gigabit Ethernet
- High Speed Computer Links

(SFP) = Small Form-Factor Pluggable Module



### specifications

#### DATA

Data Interface: Ethernet  
 Data Rate: 10/100/1000 Mbps  
 IEEE 802.3 Compliant; Full Duplex or Half Duplex Electrical P0rts/Full Duplex Optical Port  
 Operating Mode: SFP Dependent

#### FIBER CONNECTORS\*

Requires selection of sold-separately SFP modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Modules" for number and description of SFP modules.

#### CONNECTORS

Power: Terminal Block  
 Optical: LC or SC (depending on SFP module used)  
 Data: RJ45

#### 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 Solid-State Current Limiters  
 Current Protection: Meets IPC Standard  
 Circuit Board: 6.1 × 5.3 × 2.2 in., (15.5 × 13.5 × 5.6 cm)  
 Size (in./cm) (L×W×H): <2 lbs./0.9 kg  
 Shipping Weight:

#### 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)†

\* 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

† May be extended to condensation conditions



PART NUMBER	DESCRIPTION	DISTANCE
CNGE8US	8 Port 1000 Mbps Ethernet Unmanaged Switch	See SFP Modules data sheet for optional distances, fiber type and connector type.
CNGE8FX4TX4US	8 Port 1000 Mbps Ethernet Unmanaged Switch; 4TX, 4FX	
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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