



The ComNet™ CNGE4US Ethernet 4 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. 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

- › 10/100/1000 Mbps Ethernet
- › Environmentally Hardened for use in unconditioned installations
- › All ports support 1000 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 protection from power surges and other voltage transient events.

- › Power and Port status indicating LEDs
- › 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

<b>Data</b>	
Data Interface	Ethernet
Data Rate	10/100/1000 Mbps, IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Ports/Full Duplex Optical Port
Operating Mode	SFP Selectable
<b>Fibers<sup>1</sup></b>	Requires selection of sold-separately SFP modules. See ComNet data sheet "SFP Small Form-Factor Pluggable Modules" for number and description of SFP modules.
<b>Connectors</b>	
Optical	Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules.
Power	Terminal Block
Optical	LC or SC (depending on SFP module used)
<b>LED Indicators</b>	- Optical Link/Data Activity - Electrical Link/Data Activity - Power - PoE

<b>Power</b>	
Operating Voltage	9 to 24 VDC
Current Draw	17 W max
<b>Electrical &amp; Mechanical</b>	
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)
Number of Rack Slots	1
Shipping Weight	<2 lbs./0.9 kg
<b>Environmental</b>	
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) <sup>2</sup>

[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



ORDERING INFORMATION

Part Number	Description
CNGE4US	4 Port 1000 Mbps Ethernet Unmanaged Switch
Options	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) Small Form-Factor Pluggable Modules (See SFP data sheet) [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.

