

# 10/100TX Drop/Insert/Repeat 4TX/2EX Self-Managed Switch with PoE+

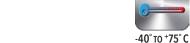
# CopperLine® CLFE4+2SMS[POE](C,U)













The ComNet CLFE4+2SMS[POE](C,U) is a six-port Ethernet switch with add/ drop/repeat functionality and provides 4 copper ports operating at 10/100Mbps and is designed to combine four electrical ports along with the incoming Cat5, UTP or Coax CopperLine® extension port into a further CopperLine extension port that forwards this data to the next CopperLine network device. There is no programming required to use this product. The ComNet CLFE4+2SMS(C,U) comes pre-programmed, preventing network video flooding with DIP switch selection of the first CopperLine port as an uplink or as an unmanaged switch. Ports 1-4 of the CLFE4+2SMSPOE(C,U) can supply up to thirty (30) watts of Power over Ethernet (PoE)\* and incorporate PoE+ features based on the IEEE 802.3at standard. It is "Plug-and-Play".

# **FEATURES**

- > 10/100 Mbps Ethernet
- 4 × 10/100Mbps RJ-45 Ports
- $\bullet$  2 × 10/100Mbps UTP/Coax Extended Distance Ports
- > Electrical ports support Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data
- > Extended distance ports are switch-selectable for 10 Mbps or 100 Mbps data rate, 1 pair or 4 pair in UTP mode
- > IEEE802.3at PoE+ 30W (PoE models only)
- > Automatic MDI/MDI-X crossover
- > Full 10/100 Mbps Bandwidth
- > Supports Multicast, Unicast
- > Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/lowline 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.

- > Extended distance over UTP or Coaxial Cable
- > Hot-swappable rack modules
- > Interchangeable between stand-alone or rack mount use -ComFit
- > LED status indicators confirm operating status
- > IEEE 802.3 compliant
- > Lifetime Warranty

# **APPLICATIONS**

- > 10/100 Mbps Ethernet
- > High Speed Computer Links
- > Drop/Insert/Repeat Ethernet data over extended distances
- > Factory Automation with UTP

<sup>\*</sup> Power Supply for PoE applications is sold separately.

# **SPECIFICATIONS**

**Data Interface Ethernet** 10/100 Mbps Data Rate IEEE 802.3 Compliant

Full Duplex or Half Duplex Electrical Ports

## **Extended Distance Ethernet**

Media	COAX - RG59/U		UTP - 4 pair		UTP - 1 pair	
Data Rate	10M	100M	10M	100M	10M	100M
Extended	5,000 ft	2,000 ft	3,000 ft	2,000 ft	3,000 ft	1,000 ft
Distance <sup>1</sup>	1,524 m	610 m	915 m	610 m	915 m	305 m

Running multiple signals in the same twisted pair cable could affect signal quality and is not recommended.

### Connectors

**Terminal Block** Power Ethernet RJ45

Coaxial (C):female BNC **Extended Distance** 

UTP (U): RJ-45

**POE Pin Assignment** RJ45 port supports IEEE802.3at

End-point Positive (VCC+): RJ45 pin 1, 2

Negative (VCC-): RJ45 pin 3, 6

**Power** 

**Operating Voltage** 48 to 56 VDC PoE, 9 to 24 VDC non-PoE

5A, with PoE, 1A w/out PoE **Current Draw** 

**Current Protection Automatic Resettable Solid-State Current Limiters** 

# **Electrical & Mechanical**

**Indicator LEDs** Uplink/Data Activity Electrical Link/Data Activity

Power PoE

Wall or Flat Surface Screw Attachment Surface Mount

Meets IPC Standard Circuit Board

Size  $6.1 \times 5.3 \times 2.2$  in  $(15.5 \times 13.5 \times 5.6$  cm) **Number of Rack Slots** 2 (Although the units may be mounted inside a ComNet rack, the PoE models cannot be powered

from the built-in rack PSU; they must be powered by

an external 48 to 56 VDC PSU.)

**Shipping Weight** <2 lb / 0.9 kg

# **Environmental**

>100,000 hours MTRF **Operating Temp** -40° C to +75° C Storage Temp -40° C to +85° C

Relative Humidity 0% to 95% (non-condensing)<sup>2</sup>

## **Ethernet Standards**

IEEE 802.3at PoE+ (PoE Models Only)

RFC: 768 UDP, 2068 HTTP, 793 TCP, 791 IP, 1783 TFTP, 894 IP over Ethernet

[1] Distance figures are obtained using in-house testing mirroring installations. Factors such as coaxial/copper cable quality, the number of connectors/splices in the cable run, the use of PoE, and environmental conditions encountered within the installation may affect the actual transmission distance, and should be taken into consideration.





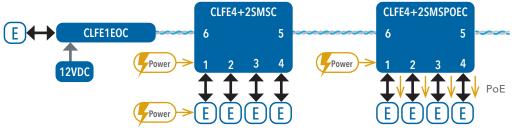
# ORDERING INFORMATION

Part Number	Description		
CLFE4+2SMSC	10/100TX Drop/Insert/Repeat 4TX/2EX Self-Managed Ethernet Switch, Coax model		
CLFE4+2SMSU	10/100TX Drop/Insert/Repeat 4TX/2EX Self-Managed Ethernet Switch, UTP model		
CLFE4+2SMSPOEC	10/100TX Drop/Insert/Repeat 4TX/2EX Self-Managed Ethernet Switch with PoE, Coax model		
CLFE4+2SMSPOEU	10/100TX Drop/Insert/Repeat 4TX/2EX Self-Managed Ethernet Switch with PoE, UTP model		
Accessories	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included, for benign 0 to 50°C applications only. Hardened power supply available, consult factory)		
Options	Suitable Power Supply for PoE Applications (Not included, consult factory) Add suffix '/LV' for 12-24 VDC Power option (Not included, consult factory) [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 or DINBKT4)		

Note: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

# TYPICAL APPLICATION

ntelligent Security, Simplified



Leaend CAT5e/6 Cable PoE Power Coax/UTP

PoE Devices

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