



-40° TO +65°



EXTENDER



4+1



30W



The ComNet CLFE4+1SMS[POE](C,U) is a five-port Ethernet switch with uplink management functionality and provides 4 copper ports operating at 10/100Mbps and is designed to combine four electrical ports into a single electrical Cat5, UTP or Coax CopperLine® port that forwards this data to the next network device. There is no programming required to use this product. The ComNet CLFE4+1SMS comes pre-programmed, preventing network video flooding with DIP switch selection of the fifth electrical port as uplink or as an unmanaged switch. Ports 1-4 of the CLFE4+1SMSPOE 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

- › No Programming Required
- › 10/100 Mbps Ethernet
 - 4 × 10/100 BASE-T/TX electrical ports with optional PoE+
 - 1 × 10/100Mbps CopperLine electrical uplink
- › Electrical ports support Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.
- › Pre-programmed Port for uplink
- › Full 10/100 Mbps Bandwidth
- › Supports Multicast, Unicast and Jumbo Frame
- › 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.
- › Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events.
- › LED status indicators confirm operating status
- › Hot-swappable rack modules
- › Interchangeable between stand-alone or rack mount use - ComFit, or can be DIN-Rail mounted with optional kit
- › IEEE 802.3 compliant
- › Lifetime Warranty

APPLICATIONS

- › IP Video Applications
- › CCTV systems for casinos, airports, school campuses
- › Retrofit of existing analog CCTV installations to Ethernet based systems

* Power Supply for PoE applications is sold separately.

SPECIFICATIONS

Ethernet

Data Interface	Ethernet
Data Rate	10/100 Mbps
	IEEE 802.3 Compliant
	Full Duplex or Half Duplex Electrical Ports
Standards	IEEE 802.3at PoE+ (PoE Models Only), RFC: 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet.

Connectors

Operating Power Ethernet	Terminal Block RJ-45
Extended Distance	Coaxial (C): female BNC Ethernet (U): RJ-45

Power

Operating Voltage	9 to 12 VDC (non-PoE), 48 to 56VDC (PoE)
Power Consumption	10W (non-PoE), 130W (PoE)
Current Protection	Automatic Resettable Solid-State Current Limiters

Electrical & Mechanical

LED Indicators	Electrical Link/Data Activity Power PoE+ Extension Link/Activity
Circuit Board Size (LxWxH)	Meets IPC Standard 6.1 x 5.3 x 1.1 in (15.5 x 13.5 x 2.8 cm)
Surface Mount	Wall or Flat Surface Screw Attachment
Number of Rack Slots	1 (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 48-56VDC PSU.)
Shipping Weight	<2 lb /0.9 kg

Environmental

MTBF	>100,000 hours
Operating Temp	-40° C to +65° C
Storage Temp	-40° C to +85° C
Relative Humidity	0% to 95% (non-condensing) ²

ORDERING INFORMATION

Part Number	Description
CLFE4+1MSC	4 Port 10/100 Mbps Ethernet Self-managed Switch, with Coaxial CopperLine uplink port
CLFE4+1MSU	4 Port 10/100 Mbps Ethernet Self-managed Switch, with UTP CopperLine uplink port
CLFE4+1MSPOEC	4 Port 10/100 Mbps Ethernet Self-managed Switch with PoE+, with Coaxial CopperLine uplink port
CLFE4+1MSPOEU	4 Port 10/100 Mbps Ethernet Self-managed Switch with PoE+, with UTP CopperLine uplink port
Included Accessories	Unit-appropriate power supply (one each provided with each non-PoE unit, for benign 0 to 50°C applications only. Hardened power supply available, consult factory)
Options	For PoE units order suitable PoE power supply (sold separately) [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 (sold separately, order model DINBKT1 or DINBKT4)



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

MAXIMUM TRANSMISSION DISTANCES³

Media	COAX - RG59/U		UTP - 4 pair		UTP - 1 pair	
	10M	100M	10M	100M	10M	100M
Extended Distance ³	5,000 ft 1,524 m	2,000 ft 610 m	3,000 ft 914 m	2,000 ft 610 m	3,000 ft 914 m	1,000 ft 305 m

[3] 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, and environmental conditions encountered within the installation may affect the actual transmission distance, and should be taken into consideration.

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

TYPICAL APPLICATION

