



DESCRIPTION

The ComNet™ CWFE1COAXPOE/M supports 100Mbps Ethernet transmission as well as Power over Ethernet (PoE) at data rates of 100Mbps, and transmission distances of up to 305 meters (1000 feet). The IEEE 802.3-compliant Ethernet electrical interface of this media converter meets the requirements for IEEE 802.3af PoE power, providing up to 30 watts of power to the powered device (PD) in the field. Model CWFE1COAXM or CWFE2COAX are installed at the head-end location, and the model CWFE1COAXPOE/M is installed at the powered device in the field location. It supports DC power input from 12 to 24VDC and 24VAC. LED indicators are provided for rapidly ascertaining the operating status of the device. Packaged in a rugged compact sized housing, the CWFE1COAXPOE/M are designed for shelf or stand-alone mounting, making them ideal for those installations where space is limited. These units may also be DIN-rail mounted by the addition of the ComNet model DINBKT2 Adapter Plate Kit. True plug-and-play design ensures ease of installation and operation, and no adjustments are ever required.

FEATURES

- › A ComNet ValueLine Product - Lower price: designed for installation in benign (0 to +50° C) operating environments.
- › Supports transmission distances of up to 305m (1000ft) over standard 75 Ω coaxial cable, at data rates up to 100 Mbps
- › Fully compliant with IEEE 802.3 for Ethernet equipment
- › Meets the requirements for IEEE 802.3af PoE: supports up to 30 watt powered device (PD) loads
- › 100 BASE-TX Ethernet input/output port
- › Automatic MDI/MDI-X crossover
- › True plug-and-play operation
- › BNC connector for coaxial cable interface
- › Small-sized package is ideal for those installations where space may be limited
- › Five year warranty
- › Made in the U.S.A

APPLICATIONS

- › Upgrading an existing coaxial cable plant for use with Ethernet and PoE

Industrial Security:

- › Any Ethernet-compatible PoE equipment with a data rate of 100Mbps, where Ethernet and PoE transmission over standard 75 ohm coaxial cable is desired
- › Ethernet-compatible PoE industrial security access control systems, intercom systems, and IP-compatible CCTV camera surveillance networks
- › VOIP (Voice over IP) telephony networks

ITS/Transportation & Industrial/Factory Automation:

- › Connecting Ethernet-based traffic signal controller units and PoE powered devices onto an existing 75 ohm coaxial cable circuit
- › IP camera-based Video Detection Systems (VDS), for analyzing traffic flow patterns and disturbances
- › Operation of Ethernet-compatible and PoE remote telemetry and sensing devices for industrial/SCADA networks

SPECIFICATIONS

Interface

Ethernet Port:

Connector: RJ45
 Cable: CAT5, Cat5e, Cat6
 Data Rate: 100Mbps
 Electrical: Up to 30W (Max)

Line Side Port (75Ω Coax):

Connector: BNC
 Impedance: 75Ω Coax

Max Distance: 100Mbps throughput up to 305m (1000ft)

Electrical & Mechanical

Power: 12 - 24 VDC, 24VAC @ 1.5A
 Overload Protection: Automatic Resettable Solid-state Current Limiters
 Circuit Board: Meets IPC standard
 Size (L x W x H): 4.1 x 3.7 x 1.1 in, (10.4 x 9.4 x 2.8 cm)
 Weight: <2lb (0.9kg)

Environmental

MTBF: >100,000 hours
 Operating Temp: 0°C to +50°C
 Storage Temp: -40°C to +85°C
 Relative Humidity: 0 to 95%, non-condensing*



* May be extended to humidity with condensation conditions by adding suffix "/C"

ORDERING INFORMATION

Part Number	Description	Media Required	Max. Distance	# Rack Slots
CWFE1COAXPOE/M	Ethernet over Coax; Power over Ethernet (PoE)	75Ω Coax	305m (1000ft)	N/A

TYPICAL APPLICATION

