100Mbps Ethernet-over-Coax + 15 watt PoE

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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

A ComNet ValueLine Product

Lower price: designed for installation in benign (0 to +50° C) operating environments.

Description

The ComNet™ CWFE1POCOAXM series supports 100Mbps Ethernet transmission as well as Power over Ethernet (PoE) over standard 75 ohm coaxial cable circuits, at data rates of up to 100 Mbps, and transmission distances of up to 230 meters (750 feet). The IEEE 802.3-compliant Ethernet electrical interface of this media converter meets the requirements for IEEE 802.3af PoE power, providing 15 watts of power to the powered device (PD) in the field. Model CWFE1POCOAXA is installed at the head-end (power sourcing equipment) location, and the model CWFE1POCOAXBM is installed at the powered device (PD) in the field location. LED indicators are provided for rapidly ascertaining the operating status of the device. Packaged in a rugged, compact sized housing, these units are designed for shelf or stand-alone mounting, making them ideal for those installations were space is limited. These units may also be DIN-rail mounted by the addition of the ComNet model DINBKT2 Adaptor Plate Kit. True plug-and-play design ensures ease of installation and operation, and no adjustments are ever required.

Features

- Supports transmission distances of up to 230 meters (750 feet) over standard 75 ohm 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 15 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 were space may be limited
- Five year warranty
- Made in the U.S.A

specifications

INTERFACE

Ethernet Port:

Ethernet connector:	RJ45
Cable:	Cat 5, Cat 5e, Cat 6
Data Rate:	100Mbps
Electrical:	15.4W (max)

Line Side Port (75Ω Coax):

Coaxial connector:	BNC
Impedance:	75Ω coax

Max Distance: 100Mbps throughput up to 230 m (750 ft)

ELECTRICAL & MECHANICAL

Power:	Supplied through Coax by CWFE(1,2)POCOAXA unit (sold separately)
Overload Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard

SIZE (L×W×H)

4.1 × 3.7 × 1.1 in., (10.4 × 9.4 × 2.8 cm)

Shipping Weight: <2 lb./0.9 kg

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'

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT   CE   c(UL)us E322911   RoHS COMPLIANT   C N24021

MADE IN THE USA

PART NUMBER	DESCRIPTION	MEDIA REQUIRED	MAX. DISTANCE	# RACK SLOTS
CWFE1POCOAXBM	Power over Coax; Power over Ethernet (PoE)	75Ω Coax	100Mbps throughput up to 230 m (750 ft)	N/A

Ethernet Switch ⟷ CWFE1POCOAXA

48V Power Supply →

Coax up to 230 m (750 ft) at 100Mbps

CWFE1POCOAXBM ⟷ PoE powered device

⟷ CAT 5e/6