

100Mbps Ethernet-over-Coax  
Single / Dual Channel



**A ComNet ValueLine Product**

**Lower price: designed for installation in benign (0 to +60° C) operating environments.**

**Description**

ComNet™ CWFE1COAXM and CNFE2COAX support high-speed Ethernet transmission over standard 75 ohm coaxial cable circuits, at data rates of 100 Mbps, and transmission distances of up to 305 meters (1000 feet). The CWFE1COAX is a standard sized single channel unit, the CWFE1COAXM is a small sized unit and the CWFE2COAX contains two independent channels in a single standard-sized enclosure (ComFit). These media converters are the perfect solution for upgrading an existing coaxial cable plant for use with Ethernet, when compared to the significant costs and nuisance of installing new network cabling. User-configurable master/remote selection is included for unparalleled versatility. 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 where space is limited. The CWFE1COAXM and CWFE2COAX 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.

**Applications**

**Industrial Security:**

- Any Ethernet-compatible equipment with a maximum data rate of 100 Mbps, where transmission over 75 ohm coaxial cable is desired
- Ethernet-compatible 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 onto an existing coaxial cable circuit
- IP camera-based Video Detection Systems (VDS), for analyzing traffic flow patterns and disturbances
- Operation of Ethernet-compatible remote telemetry and sensing devices for industrial/SCADA networks

**Features**

- Supports transmission distances of up to 305 meters (1000 feet) over standard 75 ohm coaxial cable, at symmetric data rates up to 100 Mbps
- Fully compliant with IEEE 802.3 for Ethernet equipment.
- 100 BASE-TX Ethernet input/output port
- Automatic MDI/MDI-X crossover
- User-configurable master/remote selection
- True plug-and-play operation
- BNC connector for coaxial cable interface
- CWFE1COAX and CWFE2COAX are hot-swappable rack modules
- CWFE1COAX and CWFE2COAX are interchangeable between stand-alone or rack mount use – ComFit
- Small-sized CWFE1COAXM package is ideal for those installations where space may be limited
- Five year warranty
- Made in the USA

**specifications**

**INTERFACE**

**Ethernet Port:**

Ethernet connector: RJ45  
 Cable: Cat 5, Cat 5e, Cat 6  
 Data Rate: 100Mbps  
 Distance: 100m (328ft)

**Line Side Port (75Ω Coax):**

Coaxial connector: BNC  
 Impedance: 75Ω coax

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

**SIZE (L×W×H)**

CWFE1COAXM Small Size 3.3 × 2.5 × 1.1 in.,  
 (8.4 × 6.4 × 2.8 cm)  
 CWFE(1,2)COAX ComFit Size 6.1 × 5.3 × 1.1 in.,  
 (15.5 × 13.5 × 2.8 cm)  
 Shipping Weight: <2 lbs./0.9 kg

**ENVIRONMENTAL**

MTBF: >100,000 hours  
 Operating Temp: 0° C to +60° C  
 Storage Temp: -40° C to +85° C  
 Relative Humidity: 0% to 95% (non-condensing)\*

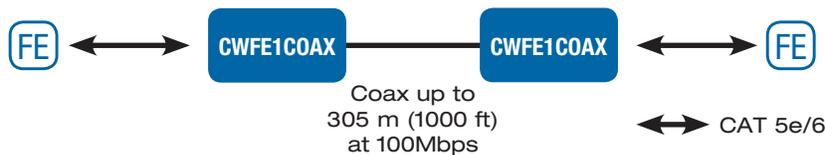
\* May be extended to humidity with condensation conditions by adding suffix '/C'

**ELECTRICAL & MECHANICAL**

Power: 9 – 24 VDC, 12 – 24 VAC @ < 120 mA  
 Standard Size: 9 – 24 VDC @ < 120 mA only  
 Mini (CWFE1COAXM): Automatic Resettable  
 Overload Protection: Solid-State Current Limiters  
 Circuit Board: Meets IPC Standard



PART NUMBER	DESCRIPTION	MEDIA REQUIRED	MAX. DISTANCE	# RACK SLOTS
CWFE1COAXM	Small-Size Single Channel Ethernet over Coax	75Ω Coax	100Mbps throughput up to 305 m (1000 ft)	NA
CWFE1COAX	Single Channel Ethernet over Coax			1
CWFE2COAX	Dual Channel Ethernet over Coax			1



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