



The ComNet™ CWFE1COAXM and CWFE2COAX 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. True plug-and-play design ensures ease of installation and operation, and no adjustments are ever required.

## FEATURES

- › Commercial Grade
- › 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
- › 5 Year Warranty

## 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

SPECIFICATIONS

Ethernet

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)

Indicating LEDs - Electrical Link/Data Activity  
- Coax Link

Power

Operating Voltage Range	Standard Size: 9 – 24 VDC, 12 – 24 VAC Mini (CWFE1COAXM): 9 – 24 VDC
Power Consumption	3 W

Electrical & Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
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) <sup>1</sup>



ORDERING INFORMATION

Part Number	Wavelength	Media Required	Max. Distance	# of Rack Slots
CWFE1COAXM	Small-Size Single Channel Ethernet over Coax	75Ω Coax	100Mbps throughput up to 305 m (1000 ft)	N/A
CWFE1COAX	Single Channel Ethernet over Coax	75Ω Coax	100Mbps throughput up to 305 m (1000 ft)	1
CWFE2COAX	Dual Channel Ethernet over Coax	75Ω Coax	100Mbps throughput up to 305 m (1000 ft)	1
Included Accessories	DC Plug-in Power Supply, 90-264 VAC, 50-60 Hz (Included)			
Options	[1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)			

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

TYPICAL APPLICATION

