



The ComNet™ CWFE2SC(M,S)2 Ethernet media converters are designed to transmit and receive 10/100 Mbps data over multimode or single mode optical fiber. The electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. These media converters are commercial grade for light industrial use.

## FEATURES

- › Commercial Grade
- › 10/100 Mbps Ethernet
  - 10/100 BASE-T/TX electrical port
  - 100 BASE-FX optical port
- › Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data.
- › Optical port supports 100 Mbps full duplex data
- › Automatic MDI/MDI-X crossover
- › Distances up to: 3 km (2 miles) Multimode  
30 km (18.6 miles) Single Mode
- › Transparent to data encoding/compatible with major data protocols
- › Ambient operating temperature range: 0° - 50°C
- › Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events.
- › No in-field optical adjustments required
- › LED Indicators
- › IEEE 802.3 compliant
- › 5 Year Warranty

## APPLICATIONS

- › 10/100 Mbps Ethernet Media Converter
- › High Speed Computer Links

## SPECIFICATIONS

### Ethernet

Data Interface:	Ethernet
Data Rate:	10/100 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port/ Full Duplex Optical Port

### Connectors

Optical:	SC, 2 Fibers
Power:	2.1mm Center Positive Plug
Electrical:	RJ-45

### Indicating LEDs

- Optical Link/Data Activity
- Electrical Link/Data Activity
- Power

### Power

Operating Voltage Range	8 to 24 VDC
Power Consumption	6W

### Electrical & Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	4.7 × 3.3 × 1 in (11.9 x 8.5 x 2.6cm)
Shipping Weight	<2 lbs./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) <sup>1</sup>

*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.*



## ORDERING INFORMATION

Part Number	Wavelength	Connector	Fibers Required	Fiber	Optical Power Budget	Max. Distance
CWFE2SCM2	10/100 Mbps Ethernet (1310 nm)	SC	2	Multimode	10dB	3 km (2 mi)
CWFE2SCS2	10/100 Mbps Ethernet (1310 nm)	SC	2	Single Mode	15 dB	30 km (18.6 mi)
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: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J.*

## TYPICAL APPLICATION

