



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) ¹

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



Low Power Consumption