

commercial grade 10/100 Mbps
Ethernet media converter



Description

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 unconditional 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

DATA

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: RJ45

LED INDICATORS

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

ELECTRICAL & MECHANICAL

Power: 8-24 VDC @ 220 mA
Current Protection: Automatic Resettable
Solid-State Current Limiters
Meets IPC Standard
Circuit Board: Meets IPC Standard
Size (in./cm) (L×W×H) : 4.7 × 3.3 × 1 in.,
(119 x 85 x 25.6mm)
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)[†]

[†] May be extended to condensation conditions



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

PART NUMBER	WAVELENGTH	CONNECTOR	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE
CWFE2SCM2	10/100 Mbps Ethernet (1310 nm)	SC	2	Multimode	10 dB	3 km (2 miles)
CWFE2SCS2	10/100 Mbps Ethernet (1310 nm)	SC	2	Singlemode	15 dB	30 km (18.6 miles)
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)					
Options	Add suffix '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)					

