

ValueLine



INCLUDED



CONVERTER



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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.

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
- › Supports switch converter mode or pure converter mode
- › Link Fault Pass-through for remote end fault detection
- › Ambient operating temperature range: 0 ° - 50 °C
- › Designed for stand-alone or rack mount installation (with sold-separately ComNet CWCHASSIS rack).
- › 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

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

Power

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|-------------------------|---|
| Operating Voltage Range | 5 to 12 VDC |
| Power Consumption | 2.7 W |
| Current Protection | Automatic Resettable Solid-State Current Limiters |

Electrical & Mechanical

| | |
|-----------------|--|
| Indicating LEDs | - Optical Link/Data Activity - Electrical Link/Data Activity - Power |
| 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 |
| Installation | Stand-Alone or 1 slot in sold-separately CWCHASSIS |

Environmental

| | |
|-------------------|--|
| MTBF | >50,000 hours |
| Operating Temp | 0° C to +50° C |
| Storage Temp | -40° C to +70° C |
| Relative Humidity | 10% to 90% (non-condensing) ¹ |



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) Add suffix '/US', '/EU', '/UK', or '/AU' for region-specific power supply connector | | | | | |
| 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. In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATION

