![comnet Communication Networks]

CWFE2SC(M,S)2

# ValueLine

**POWER SUPPLY** INCLUDED

**TX ↔ FX ELECTRICAL TO OPTICAL** CONVERTER

**10/100 ETHERNET** 1

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

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

### Power

| | |
|---|---|
| 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] |

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT   CE   C✓   RoHS

## 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



| | |
|---|---|
| E ↔ CWFE2SCM2 ══ CWFE2SCM2 ↔ E | ── Cat-5 Cable |
| 2 Optical Fibers | ──○── Optical Fiber |

🍃 Low Power Consumption