# ValueLine

| POWER SUPPLY | SFP | TX ↔ FX ELECTRICAL TO OPTICAL | GIGABIT ETHERNET |
|---|---|---|---|
| INCLUDED | FLEXIBILITY | CONVERTER | 1 CH |

The ComNet CWGE2SFP Ethernet media converter series are one-channel Ethernet electrical to optical media converters. These auto-negotiating devices accept a 10/100/1000 Mbps electrical input and convert this to a 1000 Mbps optical output. These devices use either one or two optical fibers, depending upon the selection of either included or sold-separately SFP* optical module. These devices can be used in stand-alone mode or can be installed within the ComNet CWCHASSIS 19 inch rack.

## FEATURES

› Commercial Grade

› 10/100/1000 Mbps Ethernet
  • 10/100/1000 BASE-T(X) electrical port
  • 1000 BASE-FX optical port

› Electrical port supports Auto-Negotiation for 10, 100, or 1000Mbps, full duplex or half duplex data.

› Optical port supports 1000 Mbps full duplex data

› Automatic MDI/MDI-X crossover

› Supports Jumbo Frames up to 2K Bytes in switch converter mode or 16K Bytes in pure converter mode

› Available with pre-installed SFP modules providing 1000BASE-SX or 1000BASE-LX operation or with an empty SFP module slot for maximum flexibility

› Link Fault Pass-through for remote end fault detection

› Transparent to data encoding/compatible with major data protocols

› 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

› 10/100/1000 Mbps Ethernet Media Converter

› High Speed Computer Links

*\* Small Form-Factor Pluggable Module. Sold separately.*

## SPECIFICATIONS

### Ethernet Standards

IEEE 802.3 for 10Base-T
IEEE 802.3u for 100Base-TX
IEEE 802.3ab for 1000Base-T(X)
IEEE 802.3z for 1000Base-X
IEEE 802.3x for Flow Control

### Data

| | |
|---|---|
| Data Interface | Ethernet |
| Data Rate | 10/100/1000 Mbps |
| | IEEE 802.3 Compliant |
| | Full Duplex or Half Duplex Electrical Port/ |
| | Full Duplex Optical Port |

### Connectors

| | |
|---|---|
| Optical | SFP Dependent |
| Power | 2.1 mm Center Positive Plug |
| Electrical | RJ45 |

### LED Indicators

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

### Power

| | |
|---|---|
| Operating Voltage Range | 5 to 12 VDC |
| Power Consumption | 2.7 W |

### Electrical & Mechanical

| | |
|---|---|
| Circuit Board | Meets IPC Standard |
| Size (L×W×H) | 4.7 × 3.3 × 1 in (11.9 × 8.5 × 2.6 cm) |
| Shipping Weight | <2 lb/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

FC PART 15 COMPLIANT    CE    RoHS

Low Power Consumption

## ORDERING INFORMATION

| Part Number | Description |
|---|---|
| CWGE2SFPM2 | 10/100/1000 Mbps Ethernet Media Converter, LC Connectors, 2 Fibers, Multimode, 850 nm, 7.5 db, 550 m Max distance |
| CWGE2SFPS2 | 10/100/1000 Mbps Ethernet Media Converter, LC Connectors, 2 Fibers, Singlemode, 1310 nm, 16 db, 15 km Max distance |
| CWGE2SFP | 10/100/1000 Mbps Ethernet Media Converter, Empty SFP Slot |
| Included Accessories | DC Plug-in Power Supply, 90-264 VAC, 50–60 Hz (Included, for benign 0º to 50ºC applications only.) 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: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.*

## TYPICAL APPLICATION



E ↔ CWGE2SFP — CWGE2SFP ↔ E

Optical Fiber(s)
(model dependent)

CAT-5 CABLE
OPTICAL FIBER

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