The ComNet™ CWGE2SC(M,S)2 Ethernet media converters are designed to transmit and receive 10/100/1000 Mbps data over multimode or single mode optical fiber. The electrical interface will Auto-Negotiate to a 10, 100, or 1000 Mbps Ethernet rate without any adjustments. The optical interface operates at a 1000 Mbps Ethernet rate. These media converters are commercial grade for light industrial use.

**FEATURES**

- Commercial Grade
- 10/100/1000 Mbps Ethernet
  - 10/100/1000 BASE-T(X) electrical port
  - 1000 BASE-SX/LX 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 Frame up to 9K Bytes for streaming video applications
- Distances up to: 550 m (1,800 ft) Multimode
  - 10 km (6.2 miles) Single Mode
- 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
- 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**

- 10/100/1000 Mbps Ethernet Media Converter
- High Speed Computer Links
CWGE2SC(M,S)2

Commercial Grade 10/100/1000BASE-T(X) to 1000BASE-SX/LX Gigabit Ethernet Media Converter

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

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: SC, 2 Fibers (MM: 850nm), SM: 1310nm)
- Power: 2.5 mm Center Positive Plug
- Electrical: RJ45

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

Power
- Operating Voltage Range: 9 to 12 VDC
- Power Consumption: 2W

Electrical & Mechanical
- Circuit Board: Meets IPC Standard
- Size (L×W×H): 3.6 × 2.7 × 1 in. (93 x 70 x 26mm)
- Shipping Weight: <2 lbs./0.9 kg

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)

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

ORDERING INFORMATION

Part Number Description
CWGE2SCM2 10/100/1000Mbps Ethernet, SC Connector, 2 Fiber, Multimode, 8db, 550 m Max distance
CWGE2SCS2 10/100/1000Mbps Ethernet, SC Connector, 2 Fiber, Single mode, 15db, 10 km (6.2 mi) Max distance

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)

TYPICAL APPLICATION

2 Optical Fibers

CAT-5 CABLE
OPTICAL FIBER

Low Power Consumption