

ValueLine
Performance and Value



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

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 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)¹

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

