

ValueLine



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
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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

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

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

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



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 0° to 50°C 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

