

10/100/1000 Mbps Ethernet 2 port media converters
2 Channels: Electrical ↔ SFP Optical



Description

The ComNet™ CNGE2MC and CNGE22MC Ethernet 2 port media converter are designed to transmit and receive 10/100/1000 Mbps data over optical fiber through user selectable SFP options. The CNGE2MC transmits and receives a single channel of Ethernet data and the CNGE22MC transmits and receives two independent channels in one unit. These models require the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. Both models' electrical interface will Auto-Negotiate to a 10 Mbps, 100 Mbps or 1000 Mbps Ethernet rate without any adjustments. The optical interface operates at a 1000 Mbps Ethernet rate. Both the CNGE2MC and CNGE22MC are environmentally hardened to operate in extreme temperatures. LED indicators are provided for confirming equipment operating status. Packaged in the exclusive ComNet ComFit housing, the CNGE2MC and CNGE22MC units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

Features

- 10/100/1000 Mbps Ethernet
 - 10/100 BASE-T/TX electrical port
 - 100 BASE-FX optical port
 - 1000 BASE-FX optical port
- Electrical port supports Auto-Negotiation for 10 Mbps, 100 Mbps or 1000 Mbps, full duplex or half duplex data.
- Optical port supports 1000 Mbps full duplex data
- Automatic MDI/MDI-X crossover
- Distances up to 120 km with optional SFPs
- Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Uses interchangeable SFP for fiber type, distance and connector (Ordered separately)
- 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
- CNGE2MC and CNGE22MC are hot-swappable rack modules
- CNGE2MC and CNGE22MC are interchangeable between stand-alone or rack mount use – ComFit
- LED Indicators
- IEEE 802.3 compliant
- Lifetime Warranty

Applications

- 10/100/1000 Mbps Ethernet Media Converter
- High Speed Computer Links

(SFP) = Small Form-Factor Pluggable Module



MEDIA CONVERTERS

10/100/1000 Mbps Ethernet 2 port media converters

CNGE2MC, CNGE2MCM & CNGE22MC

2 Channels: Electrical ↔ SFP Optical

specifications

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

FIBERS

SFP Dependent

FIBER CONNECTORS*

Requires selection of sold-separately SFP modules. See ComNet data sheet for number and description of SFP modules

CONNECTORS

Power:	Terminal Block
Electrical:	RJ45

LED INDICATORS

- Optical Link/Data Activity
- Power

ELECTRICAL & MECHANICAL

Power:	8-15 VDC @ 220 mA
Surface Mount:	From Rack
Rack Mount:	1
Number of Rack Slots:	Automatic Resettable
Current Protection:	Solid-State Current Limiters
	Meets IPC Standard
Circuit Board:	
Size (in./cm) (L×W×H)	
Standard Size:	6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm)
Small Size:	3.3 × 2.5 × 1.1 in., (8.4 × 6.4 × 2.8 cm)
Shipping Weight:	<2 lbs./0.9 kg

ENVIRONMENTAL

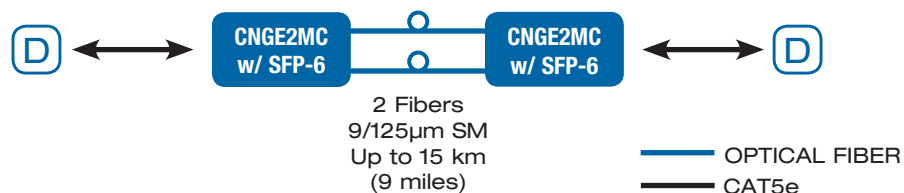
MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†



* Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652
 † May be extended to condensation conditions

PART NUMBER	DESCRIPTION
CNGE2MC	2 Port 10/100/1000 Mbps Ethernet Media Converter
CNGE2MC-M	2 Port 10/100/1000 Mbps Ethernet Media Converter
CNGE22MC	Dual 2 Port 10/100/1000 Mbps Ethernet Media Converter
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)
Options	Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)

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.



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