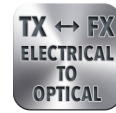**SFP
FLEXIBILITY**

**TX ↔ FX
ELECTRICAL
TO
OPTICAL
CONVERTER**

**75°
-40°
HARDENED**

The ComNet™ FE2MC-B small size Ethernet in-dome media converter is designed to transmit and receive 10/100 Mbps data over optical fiber through user selectable SFP options. The FE2MC-B requires the ordering of sold-separately interchangeable SFP modules for fiber type, distance and connectors. The FE2MC-B electrical interface will Auto-Negotiate to a 10 Mbps, or 100 Mbps Ethernet rate without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate. The FE2MC-B is environmentally hardened to operate in extreme temperatures.

FEATURES

› 10/100 Mbps Ethernet
  • 10/100 BASE-T/TX electrical port
  • 100 BASE-FX optical port

› Designed to fit in the Bosch Gen 4 Dome Camera

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

› Optical port supports 100 Mbps full duplex data

› Automatic MDI/MDI-X crossover

› Distances up to 120 km with optional SFPs

› Transparent to data encoding/compatible with major data protocols

› Uses interchangeable SFP for fiber type, distance and connector (Ordered separately)

› Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events

› No in-field optical adjustments required

› LED Indicators

› IEEE 802.3 compliant

› Lifetime Warranty

APPLICATIONS

› 10/100 Mbps Ethernet Media Converter

› Electrical to Optical Media Converter for Bosch Gen 4 Dome Camera

* Small Form-Factor Pluggable Module. Sold separately.

10/100 Mbps Ethernet 2 port in-dome media converter
1 Channel: Electrical to SFP Optical

SPECIFICATIONS

Data

Data Interface	Ethernet
Data Rate	10/100 Mbps
	IEEE 802.3 Compliant
	Full Duplex or Half Duplex Electrical Port/ Full Duplex Optical Port
Fibers	2
Fiber Connectors[1]	Requires selection of sold-separately SFP modules. See ComNet "SFP Modules" data sheet for number and description of SFPs.

Connectors

Electrical	RJ45

Power

Operating Voltage	24 VAC
Power Consumption	3W

Electrical & Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size (LxWxH)	2.9 x 2.8 x 1.5 in (7.4 x 7.1 x 3.8 cm)
Shipping Weight	<1 lb/0.45 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)[2]

[1] 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

AGENCY COMPLIANCE

c ® US

ORDERING INFORMATION

Part Number	Description
FE2MC-B	10/100 Mbps Ethernet In-Dome Media Converter
Options	[2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

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.

TYPICAL APPLICATION

PC — CNFE2MC-M — 2 Optical Fibers 62.5/125µm MM Up to 2 km (1.2 miles) — FE2MC-B w/ SFP-2 — Internal Camera Connection — Bosch Dome Camera

02 Jul 2013