

FMCI-PG Series Media Converters

10/100/1000 MBPS ETHERNET ELECTRICAL TO OPTICAL, REQUIRING FSFP MODULE

Product Features

- Full-Duplex Transmission of 10/100/1000 Mbps Ethernet
 - 10Base-T/100Base-TX/1000Base-TX Electrical Port
 - 1000Base-FX Optical Port When Used with Suitable Small Form-Factor Pluggable (FSFP) Modules
- Supports Autonegotiation and Automatic Medium Dependent Interface/Medium Dependent Interface Crossover (MDI/MDI-X) Operation for Full-Duplex or Half-Duplex Operation
- Supports Distances up to 120 km (74.5 mi) Using Interchangeable FSFP Modules for Compatibility with a Wide Range of Optical Fibers, Optical Connector Types, and Optical Transmission (Must Be Ordered Separately)
- Designed to Meet NEMA TS 1/TS 2 and Caltrans Traffic Signal Control Equipment Environmental Standards
- Voltage Transient Protection on All Power and Signal Input/Output Lines Provides Protection from Power Surges and Other Voltage Transient Events
- LED Status Indicators for Monitoring All Critical and Normal Operating Parameters
- Hot-Swappable Rack Modules
- Stand-Alone or Rack-Mountable Modular Design
- Compliant with IEEE 802.3 Standards



The **FMCI-PG1** and **FMCI-PG1M** are single channel Ethernet media converters; **FMCI-PG2** is a dual channel Ethernet media converter. These devices accept a 10/100/1000 Mbps Ethernet rate and convert it to a 1000 Mbps optical Ethernet rate using either one or two optical fibers depending upon the specific optical module used. Interchangeable small form-factor pluggable (FSFP) transceivers must be ordered separately.

The **FMCI-PG Series** is designed to operate in harsh industrial environments without electrical or optical adjustments (plug and play). The **FMCI-PG1** and the **FMCI-PG2** may be mounted in a rack or directly onto a surface. The **FMCI-PG1M** may be wall-mounted for applications where space is limited.

The **FMCI-PG Series** units are designed to operate in extreme temperatures. Built-in indicator LEDs display operating status. External power is required for the **FMCI-PG Series** units. The units can be powered with the recommended FEXTPS fiber external power supply.

The optical transmission of Ethernet-compatible IP camera surveillance video makes the **FMCI-PG Series** ideal for transportation, airport, and college campus applications.

TECHNICAL SPECIFICATIONS

MODELS

FMCI-PG1M	IP media converter, requires FSFP modules*, 1000 Mbps, single-channel, miniature size
FMCI-PG1	IP media converter, requires FSFP modules*, 1000 Mbps, single-channel, standard size
FMCI-PG2	IP media converter, requires FSFP modules*, 1000 Mbps, two-channel, standard size

ELECTRICAL

Power Input	
Standard Size	8 to 15 VDC
Mini AC/DC	22 to 27 VAC or 8 to 24 VDC
Power Consumption	2 W
MTBF	>100,000 hours
LED Indicators	Optical link, data activity

DATA

Data Interface	Ethernet
Data Rate	10/100/1000 Mbps, IEEE 802.3 compliant
Operating Mode	Electrical port, full-duplex or half-duplex Optical port, full-duplex

OPTICAL

Data Rate	1000 Mbps
Wavelength	FSFP dependent*
Number of Fibers	FSFP dependent*

MECHANICAL

Connectors	
Optical	FSFP dependent*
Power	Terminal block
Electrical	RJ-45
Number of Rack Slots	1 (FMCI-PG1 and PMCI-PG2 models only)

*Requires selection of interchangeable FSFP modules (must be ordered separately) for specific fiber type, distance, and connector. Refer to FSFP Series Transceivers specification sheet for model number and description of FSFP modules. Multimode fiber must meet or exceed fiber standard ITU-T G.651. Single-mode fiber must meet or exceed fiber standard ITU-T G.652.

GENERAL

Dimensions	
FMCI-PG1, FMCI-PG2	15.5 × 13.5 × 2.8 cm (6.1" D × 5.3" W × 1.1" H)
FMCI-PG1M	8.4 × 6.4 × 2.8 cm (3.3" D × 2.5" W × 1.1" H)
Operating Temperature	-40° to 75°C (-40° to 167°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Relative Humidity	0 to 95%, noncondensing
Weight	
Unit	<0.45 kg (1.00 lb)
Shipping	0.90 kg (2.00 lb)

CERTIFICATIONS/RATINGS

- CE, Class E
- FCC, Part 15
- UL Listed
- C-Tick
- IEEE 802.3
- Designed to meet NEMA TS 1/TS 2 and Caltrans traffic signal control equipment environmental standards

RECOMMENDED ACCESSORIES

EURACK	Rack-mount chassis for up to 14 fiber optic modules, internal power supply, European power cord
USRACK	Rack-mount chassis for up to 14 fiber optic modules, internal power supply, North American power cord
FEXTPS	Fiber external power supply with multiple plug adaptors (North American, Australian, United Kingdom, and European); 100 to 240 VAC, 50 to 60 Hz input, 9 VDC output

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