FMCI-PF Series Media Converters

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

Product Features

- 10/100 Mbps Ethernet
  - 10Base-T/100Base-TX Electrical Port
  - 100Base-FX Optical Port
- Electrical Port Supports Autonegotiation for 10 Mbps or 100 Mbps, Full-Duplex or Half-Duplex Data
- Optical Port Supports 100 Mbps Full-Duplex Data
- Automatic Medium Dependent Interface/Medium Dependent Interface Crossover (MDI/MDI-X) Operation
- Supports Distances up to 80 km (49.7 mi) Using Interchangeable Small Form-Factor Pluggable (FSFP) Modules for Specific Fiber Type, Distance, and Connector (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

FMCI-PF1 **FMCI-PF2** **FMCI-PF1M**

The **FMCI-PF Series** Ethernet media converters are designed to transmit and receive 10/100 Mbps data over optical fiber through user-selectable small form-factor pluggable (FSFP) options. All models require interchangeable FSFP modules (ordered separately) for fiber type, distance, and connectors. The **FMCI-PF1** transmits and receives a single channel of Ethernet data and the **FMCI-PF2** transmits and receives two independent channels in one unit. The electrical interface autonegotiates between 10 Mbps or 100 Mbps Ethernet rates without any adjustments. The optical interface operates at a 100 Mbps Ethernet rate.

The **FMCI-PF Series** is designed to operate in harsh industrial environments without electrical or optical adjustments (plug and play). The **FMCI-PF1** and **FMCI-PF2** units may be either wall- or rack-mounted. The **FMCI-PF1M** units may be wall-mounted.

The **FMCI-PF Series** units are designed to operate in extreme temperatures. Built-in indicator LEDs display operating status. External power is required for the **FMCI-PF 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-PF Series** ideal for transportation, airport, and college campus applications.

International Standards Organization Registered Firm; ISO 9001 Quality System

C3933 / REVISED 9-6-13

TECHNICAL SPECIFICATIONS

MODELS

FMCI-PF1M	IP media converter, requires FSFP modules*, 100 Mbps, single-channel, miniature size
FMCI-PF1	IP media converter, requires FSFP modules*, 100 Mbps, single-channel, standard size
FMCI-PF2	IP media converter, requires FSFP modules*, 100 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 Mbps, IEEE 802.3 compliant
Operating Mode	Electrical port, full-duplex or half-duplex Optical port, full-duplex

OPTICAL

Data Rate	100 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-PF1 and PMCI-PF2 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-PF1, FMCI-PF2	15.5 × 13.5 × 2.8 cm (6.1" D × 5.3" W × 1.1" H)
FMCI-PF1M	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

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
⚠ **ADVERTENCIA:** Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov.
⚠ **AVERTISSEMENT:** Cancer et Troubles de l'appareil reproducteur - www.P65Warnings.ca.gov.

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