FMCI-PoE Series Media Converters

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

Product Features

- Electrical Port Supports Autonegotiation for 10 Mbps, 100 Mbps, or 1000 Mbps, Full-Duplex or Half-Duplex Data
- Supports Distances up to 120 km (74.5 mi) Using Interchangeable Small Form Factor Pluggable (FSFP) Modules for Compatibility with a Wide Range of Optical Fibers, Optical Connector Types, and Optical Transmission (Must Be Ordered Separately)
- IEEE802.3at Class 1–4 Power over Ethernet (PoE) 30 W at 48 VDC
- Automatic Medium Dependent Interface/Medium Dependent Interface Crossover (MDI/MDI-X) Operation
- 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
- Compliant with IEEE 802.3 Standards

FMCI-PG1POE

The **FMCI-PF1PoE** and **FMCI-PG1PoE** Ethernet media converters are designed to transmit and receive 10/100 Mbps or 10/100/1000 Mbps data over optical fiber through user-selectable FSFP options. All models require interchangeable small form-factor pluggable (FSFP) modules (ordered separately) for fiber type, distance, and connectors.

The **FMCI-PF1PoE** and **FMCI-PG1PoE** media converters transmit and receive a single channel of Ethernet data, and support IEEE 802.3at Class 1–4 as Power Sourcing Equipment (PSE) with up to 30 W at 48 VDC. The electrical interface autonegotiates between 10 Mbps, 100 Mbps, or 1000 Mbps Ethernet rates without any adjustments. The optical interface of the **FMCI-PF1PoE** operates at a 100 Mbps Ethernet rate while the optical interface of the **FMCI-PG1PoE** operates at 1000 Mbps (1 Gbps).

The **FMCI-PF1PoE** and **FMCI-PG1PoE** units are designed to operate in extreme temperatures. Built-in indicator LEDs display operating status. The optical transmission of Ethernet-compatible IP camera surveillance video makes the **FMCI-PoE Series** ideal for transportation, airport, and college campus applications.

TECHNICAL SPECIFICATIONS

MODELS

FMCI-PF1POE	IP media converter, requires FSFP modules*, 10/100 Mbps, single-channel, miniature size, Power over Ethernet
FMCI-PG1POE	IP media converter, requires FSFP modules*, 10/100/1000 Mbps, single-channel, miniature size, Power over Ethernet

ELECTRICAL

Power Input	48 VDC
Power Consumption	
FMCI-PF1POE	60 W
FMCI-PG1POE	50 W
MTBF	>100,000 hours
LED Indicators	Optical link, data activity

DATA

Data Interface	Ethernet
Data Rate	
FMCI-PF1POE	10/100 Mbps
FMCI-PG1POE	10/100/1000 Mbps
Operating Mode	Electrical port, full-duplex or half-duplex Optical port, full-duplex

OPTICAL

Data Rate	
FMCI-PF1POE	100 Mbps
FMCI-PG1POE	1000 Mbps
Wavelength	FSFP dependent*
Number of Fibers	FSFP dependent*

MECHANICAL

Connectors	
Optical	FSFP dependent*
Power	Terminal Block
Electrical	RJ-45

*Requires selection of interchangeable FSFP modules (must be ordered separately) for specific fiber type, distance and connector. Refer to FSFP Series 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-PF1POE	10.36 × 9.51 × 2.80 cm (4.08" D × 3.74" W × 1.10" H)
FMCI-PG1POE	8.40 × 6.40 × 2.80 cm (3.30" D × 2.50" W × 1.10" 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

FEXTPS-48V	Fiber external power supply with multiple plug adaptors (North American, Australian, United Kingdom, and European)

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