

# MC201-1P/1FS

## Fiber to Ethernet Media Converter with PoE Injector

### OVERVIEW

The IFS Fiber to Ethernet Media Converters with PoE Injectors provide a cost-effective solution for deploying remote PoE powered edge devices with optical fiber.

Ethernet data can be transmitted up to 15km to a remote location depending on model and optic fiber used. At the remote location, the module can be installed near a power source and injects 48VDC PoE power to transmit simultaneously with the Ethernet data over Category network cable for the last 100 meters to the remote PoE edge device.

In addition, these modules utilize a high performance Store-and-Forward architecture with IEEE 802.3x Flow Control (Full-Duplex) preventing packet loss. With the LFP (Link Fault Pass-through) function (LLCF/LLR) enabled, the module also provides an efficient method of alerting network administrators of any link problems.

These modules are an inexpensive and efficient way to eliminate extra AC wiring and reduce the need for dedicated electrical outlets in walls, ceilings or any unreachable place, providing optimized power management for IP-based surveillance cameras, wireless access points (WAP) or any remote network edge device application.



### Details

- 10/100Base-TX
- Complies with IEEE 802.3, IEEE 802.3u
- Auto-negotiation and MDI/MDI-X
- Store-and-Forward architecture
- Supports maximum frame size to 1600bytes
- IEEE 802.3x full-duplex flow control, back pressure in half-duplex to eliminate packet loss
- Protects non-PoE devices if accidentally connected
- 100Base-FX Fiber
- Multi-mode or single mode versions
- Distances up to 15km
- Plug-and-play installation
- Auto Loop Back Test function
- LED indicators offer simple network diagnosis
- Link Fault Pass through function for remote alarm notification

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## Fiber to Ethernet Media Converter with PoE Injector

### Technical specifications

#### General

Type	Ethernet to SFP
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#### Connections

No. of ports	1
Port speed	Fast
Port type	10/100
Fiber port	1
Fiber port type	Single mode
Fiber port speed	100Base FX
Fiber distance	15 km
Fiber connector	SC
Wavelength	1310 nm

#### Physical

Physical dimensions	97 x 70 x 26 mm
Net weight	200 g
Mounting type	Wall mount

#### Environmental

Operating temperature	0 to +50°C
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#### Electrical

Power supply type	48 VDC
Power consumption	20 W
PoE	Yes
PoE/PoE+	1 port PoE (802.3af)

#### Ethernet

Data Rate	10/100Base-TX with Auto-negotiate (IEEE 802.3 / 802.3u)
Throughput (packet per second)	148810pps @ 64Bytes
Switch Architecture	Store-and-Forward
Flow Control	"Back pressure for Half-Duplex mode Pause from for Full-Duplex mode (IEEE 802.3x)"
Connector	RJ-45 with Auto-MDI/MDI-X and PoE injector function
Cable Type and Distance	10Base-T (Cat 3, 4, 5e) or 100Base-TX (Cat 5e) - 328ft (100m)

#### Fiber

Data Rate	100Base-FX
Connector	SC
Fiber Type	Single mode (9/125µm)
Distance	Up to 15km

#### Optics

Wavelength	1310nm
Launch Power (dBm)	Max. -7; Min.-20
Receive Sensitivity	-28
Maximum Input Power	-28

#### Power over Ethernet (PoE) Injector

PoE Standard	IEEE 802.3af
Power PIN Assignment	(+) Pins 1 & 2; (-) Pins 3 & 6
Power Output (Max. 1 PoE Device)	PoE 48 VDC, Max. 15.4 watts, 350mA

#### LED Indicators

Power/Status	On - Green
10/100Base-T Link	Data Activity - Green
100Base-FX Link	Data Activity - Green
PoE in Use	Detection of PSE Device - Green

#### LFP Mode Switch

On	If either TX or FX port is faulty, disable other port
Off	Active link LED will still operate if other port is faulty

#### Electrical & Mechanical

Power	48V DC @ 0.38A
Enclosure	Metal
Dimensions (H x W x D)	1.02 x 2.76 x 3.82 in. (26 x 70 x 97 mm)
Weight	0.44 lbs/200g

#### Environmental

Operating Temperature	0° ~ 50°C
Storage Temperature	-20° ~ 70°C
Relative Humidity	0% ~ 90% (non-condensing)

#### 0% ~ 90% (non-condensing)

0% ~ 90% (non-condensing)	0% ~ 90% (non-condensing)
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