

MC100FX-TX-POE

100Base-FX To 10/100Base-TX Media Converter + PoE Injector - Stand-alone or Wall Mount

Overview

The Carrier Fire & Security MC100FX-TX-PoE series integrates two remote network technologies in a single product—100Base-FX to 10/100Base-TX Media Conversion with Power Sourcing Equipment and a PoE Injector—for wireless access points, IP-based surveillance cameras or IP phones.

With an IEEE 802.3af PoE Injector, the MC100FX-TX-PoE provides DC 48V voltage over Ethernet cables to optimize power management of network devices. A twisted pair of cables between the MC100FX-TXPoE and IEEE 802.3af compliant PD or PoE Splitter transfers data and power simultaneously.

The maximum distance from the PoE PSE to PD is 100 meters, but a fiber interface can extend the deployment range. The MC100FX-TXPoE PoE Media Converter can change an optical Ethernet signal to an electrical Ethernet signal, or a 10/100Base-TX signal to a 100Base-FX signal, to meet different network applications. The maximum networking distance can then extend as far as two kilometers and still sustain the transmission performance as high as 100Mbps. The high performance Store-and-Forward mechanism prevents packet loss with IEEE 802.3x Flow Control (Full-Duplex). In addition, the LFP (Link Fault Pass-through) function, (LLCF / LLR) and DIP switch design will immediately alert administrators about link media problems and provide an efficient solution to monitor the net. The DIP switch can disable or enable this LFP function.

With data, long-reach fiber capability and PoE from one unit, the MC100FX-TX-PoE requires fewer cables and eliminates the need for dedicated electrical outlets. Plus, power and data switching are delivered over a single cable to prevent additional AC wiring costs and reduce installation time.

With the data, long-reach fiber capability and PoE from one unit, the MC100FX-TX-PoE will reduce cables and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. It frees the Security IP Camera and wireless AP deployment from restrictions due to power outlet locations. Power and data switching are integrated into one unit and delivered over a single cable, eliminating costs for additional AC wiring and reducing installation time.



Details

- · Slim-type metal case
- Operating temperature from 0°~+50°
- Stand-alone and wall-mount design
- 48V/0.4A DC power supply
- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX, IEEE 802.3af Power Over Ethernet standard
- Auto-negotiation for 10/100Base-TX half-duplex or 10/100Base-fullduplex
- Compact size allows for easy installation
- 100Base-FX interface for up to 2km (multi-mode fiber 50μm/125μm) on MC100FX-TX-PoE
- LED indicators offer simple network diagnosis
- IEEE 802.3x full-duplex flow control, back pressure in half-duplex eliminate packet loss
- Supports maximum frame size to 1600bytes
- Supports auto MDI/MDI-X function
- Store-and-Forward mechanism
- Auto Loop Back Test function
- Side DIP switch: LFP (Link Fault Pass-through) mode selection

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Technical specifications

Category	Commercial	
Туре	Ethernet to Fixed Optics	
Connections	·	
	1	
No. of ports	Fast	
Port speed		
Port type	10/100	
Fiber port		
Fiber port type	Multi Mode	
Fiber port speed	100Base FX	
Fiber distance	2 km	
Fiber connector	SC	
Wavelength	1300 nm	
Electrical		
Power supply type	48 VDC	
Power consumption	20 W	
PoE	Yes	
PoE / PoE+	1 port PoE (802.3af)	
Physical		
Physical dimensions	97 x 70 x 26 mm	
Net weight	200 g	
Mounting type	Standalone, Wall mount	
Environmental		
Operating temperature	0 to +50°C	
Storage temperature	-20 to +70°C	
Relative humidity	5 to 90% noncondensing (Operating / Storage)	
Hardware Specifica	itions	
	1x 10/100Base-TX RJ-45 TP interface with PoE injector function Auto-negotiation, Auto MDI/MDI X	
	1-Port 100Base-FX Multi-mode: 50/125 μm or	
	62.5/125 μm optic fiber	
Launch Power (dBm)	Max:-14 / Min: -19	
Receive Sensitivity (dBm)	-34.5	
Maximum Input Power (dBm)	-14	
Enclosure	Slim-type metal case	
Power requirement	48 VDC, 0.38 A External AC-to-DC adapter	
Power over Etherne	et	
PoE Standard	IEEE 802.3af Power over Ethernet	
PoE Power Supply Type	End-Span/Type A	
Power PIN Assignment	1/2(+), 3/6(-)	
Power Output	PoE 48 VDC, Max. 15.4 W, 350 mA	
Number of devices that can be powered	1	

Switch	Snec	rifica	ation
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Switch Architecture	Store-and-Forward	
Switch Throughput	148810 pps @ 64 Bytes	
LFP mode	Enable: Either TP port or FX port is broken, shut down the other port, Disable: Link LED indicators still on if connection of the other end is broken	
Share Data Buffer	1 Mbit on-chip frame buffer	
LED	System: Power, Status FX/LNK: Data Active, Fiber Link TX/LNK: 10/100 Link/Active, PoE in Use: Detect PSE Device	
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex	

Standards Conformance

Standards Compliance	IEEE 802.3 10Base-T
Standards Compliance	IEEE 802.3u 100Base-TX
Standards Compliance	IEEE 802.3x Flow Control and Back pressure
Standards Compliance	IEEE 802.3af Power over Ethernet
Regulation Compliance	FCC Part 15 Class A, CE
Network cables: 10/100Base-TX	TIA-EIA-568, CAT 5/5e UTP cable
Network cables: 100Base-FX	Multi-mode: $50/125~\mu m$ or $62.5/125~\mu m$ optic fiber (2km, max.).

Compatible products

Category	Reference	Description
Power Supplies	PS48VDC.38A-	
	EU	



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