

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 50 μ m/125 μ m) 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

General				
Category	Commercial			
Туре	Ethernet to Fixed Optics			
Connections				
No. of ports	1			
Port speed	Fast			
Port type	10/100			
Fiber port	1			
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				
	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 Etherno	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			
N. I. C.I. S. H. I.	1			

LFP modeEnable: Either TP port or FX port is broken down the other port, Disable: Link LED ind still on if connection of the other end is broken town the other port, Disable: Link LED ind still on if connection of the other end is broken the other port, Disable: Link LED ind still on if connection of the other end is broken the other port, Disable: Link LED ind still on if connection of the other end is broken the other port, Disable: Link LED ind still on if connection of the other end is broken the other port, Disable: Link LED ind still on if connection of the other end is broken the other end is broken the other end is broken the other port, Disable: Link LED ind still on if connection of the other end is broken the other end is broken	Switch Architecture		Store-and-Forward		
down the other port, Disable: Link LED ind still on if connection of the other end is brown 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 Use: Detect PSE Device Flow Control Back pressure for Half-Duplex, IEEE 802.3: PAUSE Frame for Full-Duplex Standards Comformance Standards Compliance IEEE 802.3 10Base-T Standards Compliance IEEE 802.3u 100Base-TX Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Network cables: Multi-mode: 50/125 µm or 62.5/125 µm op 100Base-FX fiber (2km, max.). Compatible products Category Reference Description Power Supplies PS48VDC.38A- 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	Switch Throughput		148810 pps @ 64 Bytes		
LED System: Power, Status FX/LNK: Data Active Fiber Link TX/LNK: 10/100 Link/Active, Poe Use: Detect PSE Device Back pressure for Half-Duplex, IEEE 802.3: PAUSE Frame for Full-Duplex Standards Compliance IEEE 802.3 10Base-T Standards Compliance IEEE 802.3u 100Base-TX Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Network cables: Multi-mode: 50/125 µm or 62.5/125 µm op 100Base-FX fiber (2km, max.). Compatible products Category Reference Description Power Supplies PS48VDC.38A- 48 VDC @ 380 mA, plugs directly EU wall outlets, compatible with VDA used in Europe and part of South	LFP mode		Enable: Either TP port or FX port is broken, shut down the other port, Disable: Link LED indicator still on if connection of the other end is broken		
Fiber Link TX/LNK: 10/100 Link/Active, PoE Use: Detect PSE Device Flow Control Back pressure for Half-Duplex, IEEE 802.3: PAUSE Frame for Full-Duplex Standards Comformance Standards Compliance IEEE 802.3 10Base-T Standards Compliance IEEE 802.3u 100Base-TX Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Multi-mode: 50/125 µm or 62.5/125 µm op 100Base-FX fiber (2km, max.). Compatible products Eu Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	Share Data Buffer		1 Mbit on-chip frame buffer		
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 pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Standards Compliance IEEE 802.3a Flow Control and Back pressu Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Multi-mode: 50/125 µm or 62.5/125 µm or 100Base-FX fiber (2km, max.). Compatible products Category Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	LED		System: Power, Status FX/LNK: Data Active, Fiber Link TX/LNK: 10/100 Link/Active, PoE in Use: Detect PSE Device		
Standards Compliance IEEE 802.3 10Base-T Standards Compliance IEEE 802.3u 100Base-TX Standards Compliance IEEE 802.3x Flow Control and Back pressu Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Multi-mode: 50/125 μm or 62.5/125 μm or 100Base-FX fiber (2km, max.). Compatible products Category Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA				Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex	
Standards Compliance IEEE 802.3u 100Base-TX Standards Compliance IEEE 802.3x Flow Control and Back pressu Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Multi-mode: 50/125 µm or 62.5/125 µm or Network cables: Multi-mode: 50/125 µm or 62.5/125 µm or 100Base-FX fiber (2km, max.). Compatible products Category Reference Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA	Standards Co	onforn	nance		
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Standards Compliance IEEE 802.3af Power over Ethernet Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Network cables: Network cables: Multi-mode: 50/125 µm or 62.5/125 µm or 100Base-FX fiber (2km, max.). Compatible products Category Power Supplies PS48VDC.38A- EU Vertex 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	Standards Compliance		IEEE 802.3u 100Base-TX		
Regulation Compliance FCC Part 15 Class A, CE Network cables: TIA-EIA-568, CAT 5/5e UTP cable 10/100Base-TX Network cables: Network cables: Multi-mode: 50/125 µm or 62.5/125 µm or 100Base-FX fiber (2km, max.). Compatible products Description Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	Standards Compliance		IEEE 802.3x Flow Control and Back pressure		
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10/100Base-TX Network cables: Multi-mode: 50/125 μm or 62.5/125 μm or 100Base-FX fiber (2km, max.). Compatible products Category Reference Description Power Supplies PS48VDC.38A- 48 VDC @ 380 mA, plugs directly EU wall outlets, compatible with VDA used in Europe and part of South	Regulation Compliance		FCC Part 15 Class A, CE		
100Base-FX fiber (2km, max.). Compatible products Category Reference Description Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South			TIA-EIA-568, CAT 5/5e UTP cable		
Compatible products Category Reference Description Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	Network cables:		Multi-mode: 50/125 μm or 62.5/125 μm optic		
Category Reference Description Power Supplies PS48VDC.38A- EU 48 VDC @ 380 mA, plugs directly wall outlets, compatible with VDA used in Europe and part of South	100Base-FX		fiber (2km, max.).		
Power Supplies PS48VDC.38A- EU wall outlets, compatible with VDA used in Europe and part of South	Compatible p	oroduc	ts		
EU wall outlets, compatible with VDA used in Europe and part of South	Category	Reference		Description	
America	Power Supplies		DC.38A-	48 VDC @ 380 mA, plugs directly into wall outlets, compatible with VDA plugs used in Europe and part of South America	



Number of devices that 1

can be powered

As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.