IMC-21 Series

Entry-level industrial 10/100BaseT(X)-to-100BaseFX media converters



Features and Benefits

- Multi-mode or single-mode, with SC or ST fiber connector
- Link Fault Pass-Through (LFPT)
- DIP switches to select FDX/HDX/10/100/Auto/Force

Certifications



Introduction

The IMC-21 industrial media converters are entry-level 10/100BaseT(X)-to-100BaseFX media converters designed to provide reliable and stable operation in harsh industrial environments. The converters are a cost-effective solution that run on either a 12 or 48 VDC power input and can operate reliably in temperatures ranging from -10 to 60°C. The rugged hardware design ensures that your Ethernet equipment can withstand demanding industrial conditions. The IMC-21 converters are easy to mount on a DIN rail or in distribution boxes.

Specifications

Ethernet Interface					
10/100BaseT(X) Ports (RJ45 connector)	1				
100BaseFX Ports (multi-mode SC connector)	IMC-21-M-SC: 1				
100BaseFX Ports (multi-mode ST connector)	IMC-21-M-ST: 1				
100BaseFX Ports (single-mode SC connector)	IMC-21-S-SC: 1				
Magnetic Isolation Protection	1.5 kV (built-in)				
Optical Fiber				100BaseFX	
	Fiber Cable Type Typical Distance		Multi-Mode		Single-Mode
			OM1	50/125 µm	G.652
				800 MHz x km	
			4 km	5 km	40 km
		Typical (nm)		1300	1310
Wavelength Optical Power	Wavelength	TX Range (nm)	1260 to 1360		1280 to 1340
		RX Range (nm)	1100 to 1600		1100 to 1600
	Optical Power	TX Range (dBm)		-10 to -20	0 to -5
		RX Range (dBm)		-3 to -32	-3 to -34
	Link Budget (dB)		12	29	



		100BaseFX		
		Ν	/lulti-Mode	Single-Mode
Fiber Cable Type		OM1	50/125 µm	G.652
			800 MHz x km	
	Dispersion Penalty (dB)		3	1
attenuator to	onnecting a single-mod prevent damage cause	d by exces	sive optical power.	C C

Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).

Input Gurent 12 to 48 VDC, 0.271 A (Max.) Input Voltage 12 to 48 VDC Overload Current Protection Supported Physical Characteristics Plastic Housing Plastic Input Voltage Six 100 x 97 mm (0.98 x 4.29 x 3.82 in) Weight 125 g (0.27 lb) Installation Dimensions Forironmental Limits Six 100 x 97 mm (0.98 x 4.29 x 3.82 in) Operating Temperature 125 g (0.27 lb) Strandards and Certification 125 g (0.27 lb) Storage Temperature (backage included) Alto 60°C (14 to 140°F) Antionet Relative Humidity 5 los 5% (non-condensing) Standards and Certifications E EMC Sis 500 x 0.74 to 158 °F) EMS Sis 5% (non-condensing) Emission Sis 500 x 0.74 to 158 °F) EMS Sis 500 x 0.74 to 158 °F)	Power Parameters	
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Province of the second secon	Input Voltage	12 to 48 VDC
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	Environmental Testing	IEC 60068-2-2
Vibration IEC 60068-2-6	Safety	EN 60950-1, UL 60950-1
	Vibration	IEC 60068-2-6



MTBF

Time	353,000 hrs
Standards	MIL-HDBK-217F
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x IMC-21 Series converter
Documentation	1 x quick installation guide 1 x warranty card

Dimensions



Ordering Information

Model Name	Fiber Module Type
IMC-21-M-SC	Multi-mode SC
IMC-21-M-ST	Multi-mode ST
IMC-21-S-SC	Single-mode SC

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