

IMC-21A Series

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)
- -40 to 75°C operating temperature range (-T models)
- DIP switches to select FDX/HDX/10/100/Auto/Force

Certifications







Introduction

The IMC-21A 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 can operate reliably in temperatures ranging from -40 to 75°C. The rugged hardware design ensures that your Ethernet equipment can withstand demanding industrial conditions. The IMC-21A 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-21A-M-SC Series: 1
100BaseFX Ports (multi-mode ST connector)	IMC-21A-M-ST Series: 1
100BaseFX Ports (single-mode SC connector)	IMC-21A-S-SC Series: 1





Magnetic Isolation Protection	1.5 kV (built-in)					
Optical Fiber		100BaseFX				
				fulti-Mode	Single-Mode	
		Fiber Cable Type		50/125 μm	G.652	
	Fit			800 MHz x km		
	Ту	Typical Distance		5 km	40 km	
		Typical (nm)		1300	1310	
	Wavelength	TX Range (nm)	12	260 to 1360	1280 to 1340	
		RX Range (nm)	1100 to 1600 1100 to		1100 to 1600	
		TX Range (dBm)		-10 to -20	0 to -5	
	Optical Power	RX Range (dBm)	-3 to -32		-3 to -34	
		Link Budget (dB)		12	29	
		Dispersion Penalty (dB)		3	1	
	attenuator to pr Note: Compute	onnecting a single-mode fiber transceiver, we recommend using an orevent damage caused by excessive optical power. e the "typical distance" of a specific fiber transceiver as follows: Link dispersion penalty (dB) + total link loss (dB).				
Power Parameters						
Input Current	265 mA @ 12 to 4	265 mA @ 12 to 48 VDC				
Input Voltage	12 to 48 VDC	12 to 48 VDC				
Overload Current Protection	Supported	Supported				
Power Connector	Terminal block	Terminal block				
Power Consumption	265 mA @ 12 to 4	265 mA @ 12 to 48 VDC				
Physical Characteristics						
Housing	Metal	Metal				
IP Rating	IP30	IP30				
Dimensions	30 x 125 x 79 mm	30 x 125 x 79 mm (1.19 x 4.92 x 3.11 in)				
Weight	170 g (0.37 lb)	170 g (0.37 lb)				
Installation	DIN-rail mounting	DIN-rail mounting				
Environmental Limits						
Operating Temperature		Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)				
Storage Temperature (package included)	-40 to 75°C (-40 t	-40 to 75°C (-40 to 167°F)				
Ambient Relative Humidity	5 to 95% (non-co	ondensing)				
Standards and Certifications						
EMC	EN 55032/24					
EMI	CISPR 32, FCC F	CISPR 32, FCC Part 15B Class A				
FMC	IEO 04000 4 0 E	IFC 61000 4.0 FCD: Combook 6 ld/r Aim 9 ld/				



EMS

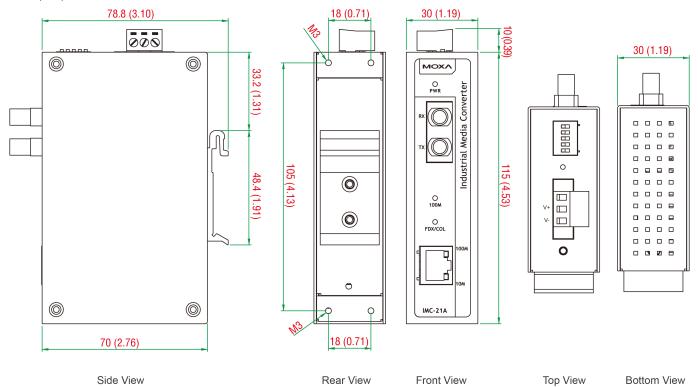
IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV



	여의시스템
	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs
Environmental Testing	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3
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-21A Series converter
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)





Ordering Information

Model Name	Operating Temp.	Fiber Module Type
IMC-21A-M-SC	-10 to 60°C	Multi-mode SC
IMC-21A-M-ST	-10 to 60°C	Multi-mode ST
IMC-21A-S-SC	-10 to 60°C	Single-mode SC
IMC-21A-M-SC-T	-40 to 75°C	Multi-mode SC
IMC-21A-M-ST-T	-40 to 75°C	Multi-mode ST
IMC-21A-S-SC-T	-40 to 75°C	Single-mode SC

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