

IMC-101 系列

工業級乙太網路轉光纖媒體轉換器



特色與優點

- 10/100BaseT(X) 自動協調和自動 MDI/MDI-X
- 支援故障轉移 (LFPT) 功能
- 透過繼電器輸出發出電源故障及連接埠斷線告警
- 備援電源輸入
- -40 至 75°C 操作溫度範圍 (-T 型號)
- 專為危險場所設計 (Class 1 Div. 2/Zone 2 、 IECEx)

認證



簡介

IMC-101 工業級媒體轉換器可提供 10/100BaseT(X) 與 100BaseFX (SC/ST 連接器) 之間的工業級媒體轉換。IMC-101 轉換器擁有絕佳並且可靠的工業級設計，確保工業自動化應用在長時間下可持續運作，且每台 IMC-101G 轉換器都具備繼電器輸出告警功能，可防止設備損壞及資料遺失。IMC-101 媒體轉換器是專為在像是危險場所 (Class 1 、 Division 2/Zone 2 、 IECEx 、 DNV 和 GL 認證) 等嚴峻工業環境中運作所設計，並且符合 FCC 、 UL 和 CE 標準。IMC-101 系列可支援 0 到 60°C 的操作溫度，以及 -40 至 75°C 的延伸操作溫度。所有 IMC-101 轉換器均接受 100% 高溫測試。

規格

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	1
100BaseFX Ports (multi-mode SC connector)	IMC-101-M-SC/M-SC-IEX Series: 1
100BaseFX Ports (multi-mode ST connector)	IMC-101-M-ST/M-ST-IEX Series: 1
100BaseFX Ports (single-mode SC connector)	IMC-101-S-SC/S-SC-80/S-SC-IEX/S-SC-80-IEX Series: 1
Magnetic Isolation Protection	1.5 kV (built-in)

Optical Fiber

		100BaseFX			
		Multi-Mode		Single-Mode (40 km)	Single-Mode (80 km)
Fiber Cable Type	OM1	50/125 μ m	G.652	G.652	
		800 MHz x km			
Typical Distance		4 km	5 km	40 km	80 km
Wave-length	Typical (nm)		1300	1310	1550
	TX Range (nm)		1260 to 1360	1280 to 1340	1530 to 1570
	RX Range (nm)		1100 to 1600	1100 to 1600	1100 to 1600
Optical Power	TX Range (dBm)		-10 to -20	0 to -5	0 to -5
	RX Range (dBm)		-3 to -32	-3 to -34	-3 to -34
	Link Budget (dB)		12	29	29

		100BaseFX		
		Multi-Mode		Single-Mode (40 km)
Fiber Cable Type	OM1	50/125 μ m	G.652	G.652
		800 MHz x km		
Dispersion Penalty (dB)		3	1	1

Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.
Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).

Power Parameters

Input Current	200 mA @ 12 to 45 VDC
Input Voltage	12 to 45 VDC
Overload Current Protection	Supported
Power Connector	Terminal block
Power Consumption	200 mA @ 12 to 45 VDC

Physical Characteristics

IP Rating	IP30
Housing	Metal
Dimensions	53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in)
Weight	630 g (1.39 lb)
Installation	DIN-rail mounting

Environmental Limits

Operating Temperature	Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) 0 to 60°C (32 to 140°F) -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 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
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
Hazardous Locations	Standard models: UL/cUL Class I Division 2 Groups A/B/C/D -IEX models: UL/cUL Class I Division 2 Groups A/B/C/D, ATEX Zone 2, IECEx

MTBF

Time	401,000 hrs
Standards	MIL-HDBK-217F

Warranty

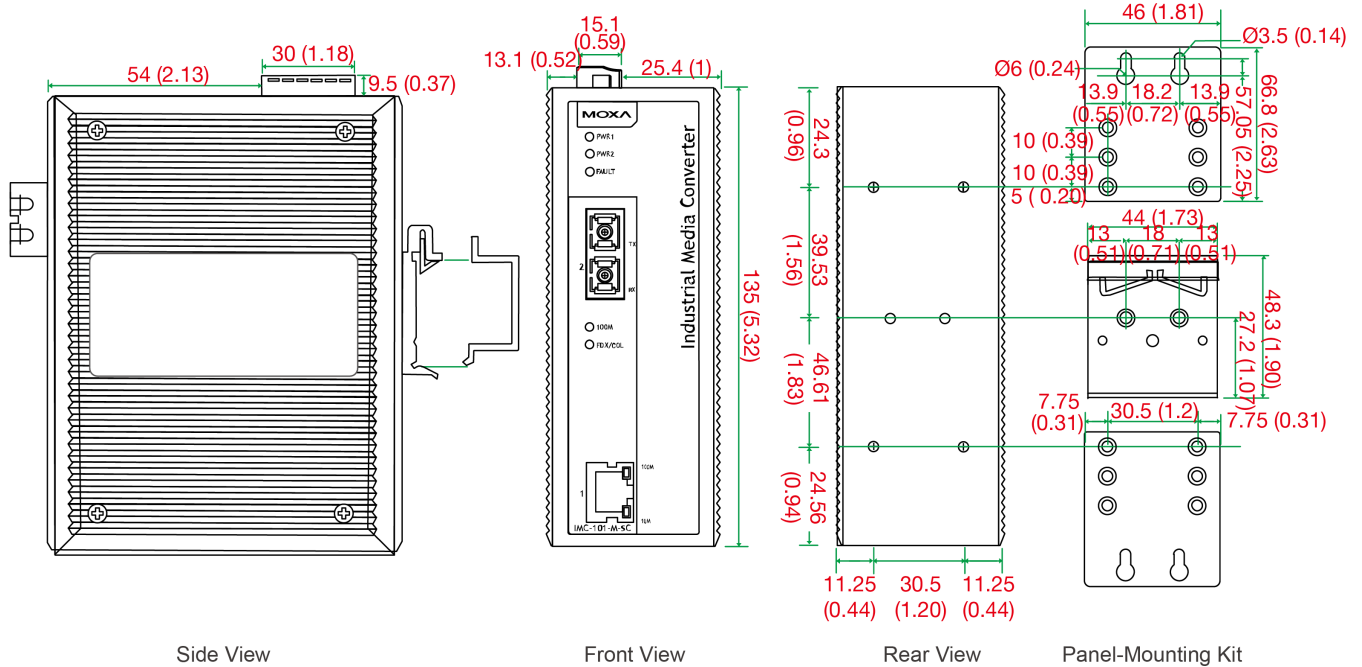
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x IMC-101 Series converter
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Operating Temp.	Fiber Module Type	IECEX	Fiber Transmission Distance
IMC-101-M-SC	0 to 60°C	Multi-mode SC	-	5 km
IMC-101-M-SC-T	-40 to 75°C	Multi-mode SC	-	5 km
IMC-101-M-SC-IEEX	0 to 60°C	Multi-mode SC	P	5 km
IMC-101-M-SC-T-IEEX	-40 to 75°C	Multi-mode SC	P	5 km
IMC-101-M-ST	0 to 60°C	Multi-mode ST	-	5 km
IMC-101-M-ST-T	-40 to 75°C	Multi-mode ST	-	5 km
IMC-101-M-ST-IEEX	0 to 60°C	Multi-mode ST	P	5 km

Model Name	Operating Temp.	Fiber Module Type	IECEx	Fiber Transmission Distance
IMC-101-M-ST-T-IEX	-40 to 75°C	Multi-mode ST	P	5 km
IMC-101-S-SC	0 to 60°C	Single-mode SC	-	40 km
IMC-101-S-SC-T	-40 to 75°C	Single-mode SC	-	40 km
IMC-101-S-SC-IEX	0 to 60°C	Single-mode SC	P	40 km
IMC-101-S-SC-T-IEX	-40 to 75°C	Single-mode SC	P	40 km
IMC-101-S-SC-80	0 to 60°C	Single-mode SC	-	80 km
IMC-101-S-SC-80-T	-40 to 75°C	Single-mode SC	-	80 km

配件 (選購)

DIN-Rail Mounting Kits

DK-DC50131-01	DIN-rail mounting kit, 6 screws
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Power Supplies

DR-4524	45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature
DR-120-24	120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature
DR-75-24	75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature

Wall-Mounting Kits

WK-46	Wall-mounting kit, 2 plates, 8 screws, 46.5 x 66.8 x 1 mm
WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws

Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
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