

PTC-101-M12 系列

IEC 61850-3 和鐵路乙太網路轉光纖媒體轉換器



特色與優點

- 10/100BaseT(X) 自動協商和自動 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告警 (僅限 LV 型號)
- -40°C 至 85°C 操作溫度範圍
- 備援雙直流電源輸入 (僅限 LV 型號)
- 整合式高可靠性電源，不需外接電源變壓器
- 符合 EN 50121-4 標準
- 符合所有 EN 50155 規範強制性測試項目¹

認證



簡介

PTC-101 乙太網路轉光纖媒體轉換器可將 10/100BaseT (X) 轉換為 100BaseFX。此系列轉換器具備光纖用的 SC、ST 或 LC 接頭可供選擇。PTC-101 轉換器除了讓您省去額外的電線配置，也同時支援 IEEE 802.3 和 IEEE 802.3u/x 協定，提供 10/100M、全/半雙工和 MDI/MDI-X 自動感應等功能，為工業乙太網路應用提供完整的解決方案。PTC-101 符合 EN 50155 規範中有關操作溫度、電源輸入電壓、突波、ESD 和振動的強制要求，並且採用敷形塗層和電源隔絕，讓這台媒體轉換器更適合用在各種工業應用。

規格

Ethernet Interface	
10/100BaseT(X) Ports (M12 D-coded 4-pin female connector)	1
100BaseFX Ports (single-mode SC connector)	PTC-101-M12-S-SC Series: 1
100BaseFX Ports (single-mode ST connector)	PTC-101-M12-S-ST Series: 1

1. 此產品適用於符合 EN 50155 標準所定義的所有軌道車輛應用。若需更詳細的說明，請參照：www.moxa.com/doc/specs/EN_50155_Compliance.pdf

Magnetic Isolation Protection	1.5 kV (built-in)	
Optical Fiber		100BaseFX
		Single-Mode
	Wavelength	1310 nm
	Max. TX	0 dBm
	Min. TX	-5 dBm
	RX Sensitivity	-34 dBm
	Link Budget	29 dB
	Typical Distance	40 km
	Saturation	-3 dBm
	a. 50/125 µm, 800 MHz x km fiber optic cable.	

Power Parameters

Input Current	150 mA @ 20 to 72 VDC
Input Voltage	20 to 72 VDC
Overload Current Protection	Supported
Power Consumption	150 mA @ 20 to 72 VDC

Physical Characteristics

Housing	Metal
Dimensions	152.15 x 126.46 x 66.65 mm (5.99 x 4.86 x 2.62 in)
Weight	Packaged: 875 g (1.92 lb) Product only: 690 g (1.52 lb)
Installation	DIN-rail mounting
Protection	-CT models: PCB conformal coating

Environmental Limits

Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

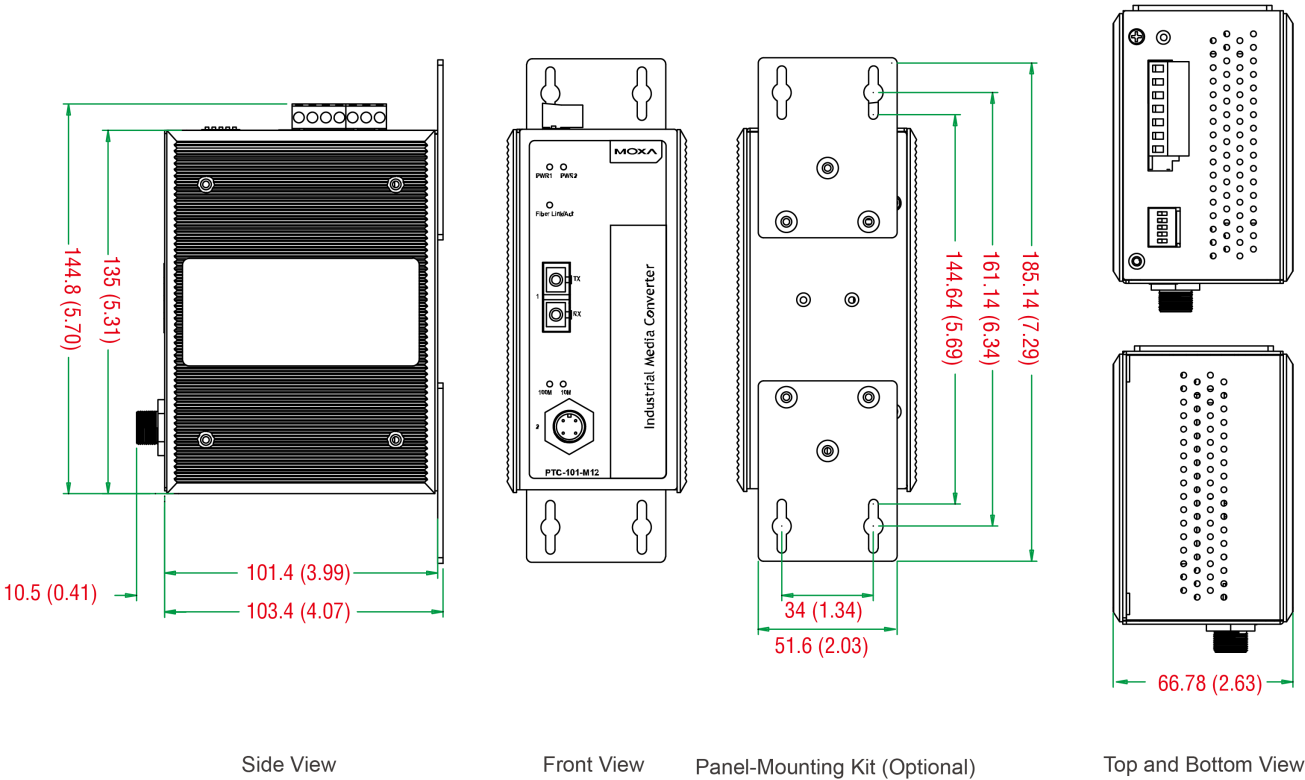
Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs
Environmental Testing	IEC 60068-2-1 IEC 60068-2-14 IEC 60068-2-2 IEC 60068-2-3

Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
MTBF	
Time	1,211,613 hrs
Standards	MIL-HDBK-217F
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty
Package Contents	
Device	1 x PTC-101-M12 Series media converter
Documentation	1 x quick installation guide 1 x warranty card

尺寸

Unit: mm (inch)



訂購資訊

Model Name	Fiber Module Type	Conformal Coating
PTC-101-M12-S-SC-LV-T	Single-mode SC	–
PTC-101-M12-S-ST-LV-T	Single-mode ST	–
PTC-101-M12-S-SC-LV-CT-T	Single-mode SC	P
PTC-101-M12-S-ST-LV-CT-T	Single-mode ST	P

配件 (選購)

Wall-Mounting Kits

WK-51	Wall-mounting kit
WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws

DIN-Rail Mounting Kits

DK-DC50131-01	DIN-rail mounting kit, 6 screws
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Wireless AP Mounting Kits

DK-DC50131	DIN-rail mounting kit
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