

PTC-101 系列

IEC 61850-3 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，不需要外接電源變壓器

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 IEC 61850-3 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隔離式電源，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 (RJ45 connector)	1
100BaseFX Ports (multi-mode SC connector)	PTC-101-M-SC-HV/M-SC-LV: 1
100BaseFX Ports (multi-mode ST connector)	PTC-101-M-ST-HV/M-ST-LV: 1
100BaseFX Ports (single-mode SC connector)	PTC-101-S-SC-HV/S-SC-LV: 1
100BaseFX Ports (single-mode ST connector)	PTC-101-S-ST-HV/S-ST-LV: 1
100BaseFX Ports (multi-mode LC connector)	PTC-101-M-LC-HV/M-LC-LV: 1
100BaseFX Ports (single-mode LC connector)	PTC-101-S-LC-HV/S-LC-LV: 1

Magnetic Isolation Protection	1.5 kV (built-in)		
Optical Fiber	100BaseFX		
		Multi-Mode	Single-Mode
	Wavelength	1300 nm	1310 nm
	Max. TX	-10 dBm	0 dBm
	Min. TX	-20 dBm	-5 dBm
	RX Sensitivity	-32 dBm	-34 dBm
	Link Budget	12 dB	29 dB
	Typical Distance	5 km ^a 4 km ^b	40 km ^c
	Saturation	-6 dBm	-3 dBm
	a. 50/125 μm, 800 MHz x km fiber optic cable b. 62.5/125 μm, 500 MHz x km fiber optic cable c. 9/125 μm single-mode fiber optic cable d. 9/125 μm single-mode fiber optic cable (80 km)		

Power Parameters

Input Voltage	LV-DC models: 20 to 72 VDC HV-AC models: 100 to 240 VAC HV-DC models: 88 to 300 VDC
Input Current	LV-DC models: 150 mA @ 20 to 72 VDC HV-AC models: 200 to 350 mA @ 100 to 240 VAC HV-DC models: 47 mA @ 88 VDC
Overload Current Protection	Supported
Power Consumption	LV-DC models: 150 mA @ 20 to 72 VDC HV-AC models: 200 to 350 mA @ 100 to 240 VAC HV-DC models: 47 mA @ 88 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

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
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
Power Substation	IEC 61850-3

MTBF

Time	1,211,613 hrs
Standards	MIL-HDBK-217F

Warranty

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

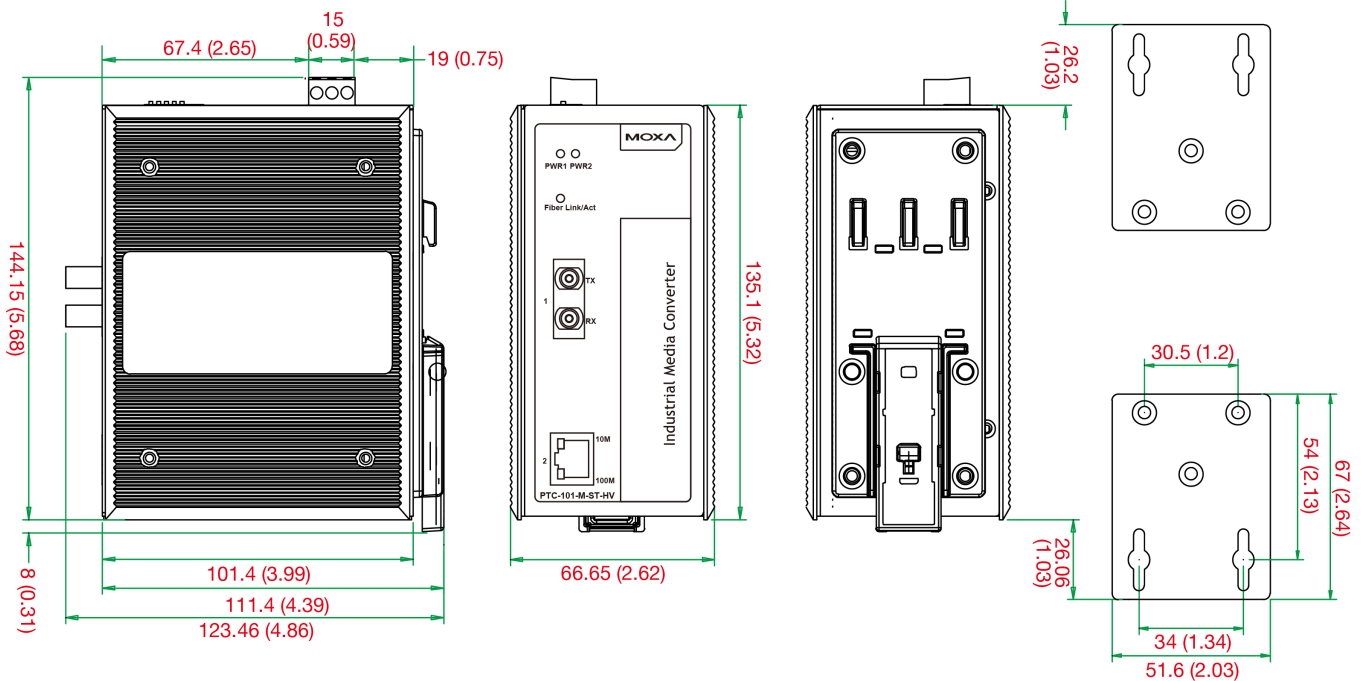
Package Contents

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

尺寸

PTC-101-M-ST-HV (可依照需求提供其他型號)

Unit: mm (inch)



Side View

Front View

Rear View

Panel-Mounting Kit (Optional)

訂購資訊

Model Name	Fiber Module Type	Input Voltage
PTC-101-M-SC-LV	Multi-mode SC	20-72 VDC
PTC-101-M-ST-LV	Multi-mode ST	20-72 VDC
PTC-101-M-LC-LV	Multi-mode LC	20-72 VDC
PTC-101-S-SC-LV	Single-mode SC	20-72 VDC
PTC-101-S-ST-LV	Single-mode ST	20-72 VDC
PTC-101-S-LC-LV	Single-mode LC	20-72 VDC
PTC-101-M-SC-HV	Multi-mode SC	85-264 VAC 88-300 VDC
PTC-101-M-ST-HV	Multi-mode ST	85-264 VAC 88-300 VDC
PTC-101-M-LC-HV	Multi-mode LC	85-264 VAC 88-300 VDC
PTC-101-S-SC-HV	Single-mode SC	85-264 VAC 88-300 VDC
PTC-101-S-ST-HV	Single-mode ST	85-264 VAC 88-300 VDC
PTC-101-S-LC-HV	Single-mode LC	85-264 VAC 88-300 VDC

配件 (選購)

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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Wall-Mounting Kits

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