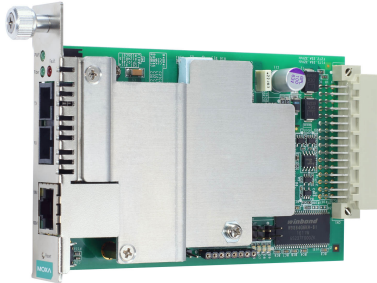


CSM-400 系列

適用於 NRack System™ 的 10/100BaseT (X) 轉 100BaseFX 滑入式模組



特色與優點

- 支援 LFP (故障轉移) 和 FEF (遠端故障) 功能
- 支援保存轉發模式和透傳模式
- 自動協商
- 支援 IEEE 802.3AH OAM 協定
- 即插即用
- 可熱插拔
- 以 IP 為基礎的遠端管理
- 支援 WDM 型模組

認證



簡介

CSM-400 系列是適用在 NRack System™ 的滑入式乙太網路轉光纖管理型媒體轉換器。此模組提供 10/100BaseT (X) 轉 100BaseFX (SC/ST 接頭) 的媒體轉換，並可安裝在任何 NRack System™ 機箱中。CSM-400 模組支援 LFP 和 FEF，可輕鬆追蹤網路連線故障，並支援保存轉發和透傳模式、用於遠端管理與監控的 802.3AM OAM，以及 WDM 型光纖模組，以降低光纖纜線成本。

規格

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	1
100BaseFX Ports (multi-mode SC connector)	CSM-400-1213: 1 CSM-400-1213-T: 1
100BaseFX Ports (multi-mode ST connector)	CSM-400-1214: 1 CSM-400-1214-T: 1
100BaseFX Ports (single-mode SC connector)	CSM-400-1218: 1 CSM-400-1218-T: 1
100BaseFX Ports, WDM-A Single-Mode SC Connector	CSM-400-1224: 1 CSM-400-1224-T: 1
100BaseFX Ports, WDM-B Single-Mode ST Connector	CSM-400-1225: 1 CSM-400-1225-T: 1

Optical Fiber		100BaseFX			100 BaseFX WDM-A	100 BaseFX WDM-B
		Multi-Mode		Single-Mode		
		Fiber Cable Type	O M1	50/125 μm	G.652	
800 MHz x km						
Typical Distance		4 km	5 km	40 km	20 km	20 km
Wave-length	Typical (nm)	1300		1310	1310/1550	1550/1310
	TX Range (nm)	1260 to 1360		1280 to 1340	1280 to 1340	1480 to 1600
	RX Range (nm)	1100 to 1600		1100 to 1600	1480 to 1600	1280 to 1340
Optical Power	TX Range (dBm)	-10 to -20		0 to -5	-5 to -15	-5 to -15
	RX Range (dBm)	-3 to -32		-3 to -34	-3 to -32	-3 to -32
	Link Budget (dB)	12		29	17	17
	Dispersion Penalty (dB)	3		1	1	1
<p>Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> <p>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB).</p>						

Magnetic Isolation Protection	1.5 kV (built-in)
Standards	IEEE 802.3u for 100BaseT(X) and 100BaseFX

Power Parameters

Input Current	220 mA @ 12 VDC
Input Voltage	12 VDC
Overload Current Protection	Supported
Power Consumption	220 mA @ 12 VDC

Physical Characteristics

Dimensions	86.8 x 124.3 x 21 mm (3.42 x 4.89 x 0.83 in)
Weight	Packaged: CSM-400-1213/1214/1218 Series: 170 g (0.37 lb) CSM-400-1224/1225 Series: 180 g (0.40 lb) Product only: CSM-400-1213/1214/1218 Series: 115 g (0.25 lb) CSM-400-1224/1225 Series: 125 g (0.28 lb)

Environmental Limits

Operating Temperature	Standard Models: -20 to 55°C (-4 to 131°F) Wide Temp. Models: -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: 4 kV; Air: 8 kV 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: 0.5 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 60068-2-14 IEC 60068-2-2 IEC 60068-2-3
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6

MTBF

Time	1,454,560 hrs
Standards	Telcordia (Bellcore), GB

Warranty

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

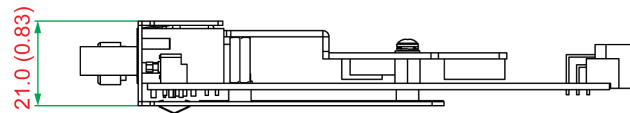
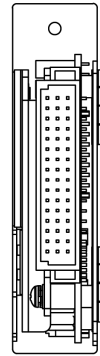
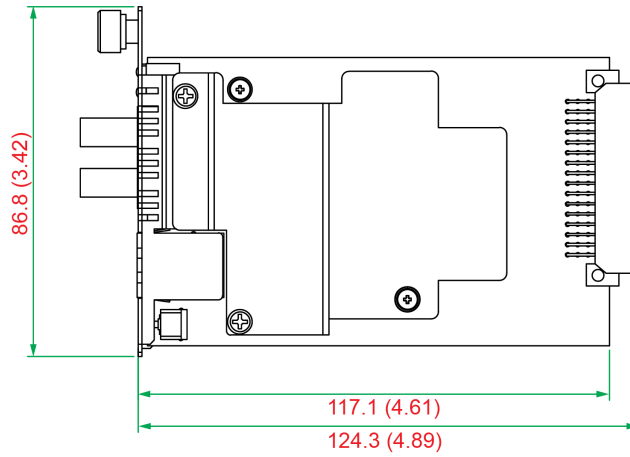
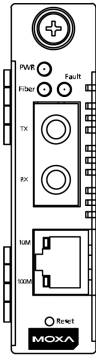
Package Contents

Device	1 x CSM-400 Series module
Documentation	1 x quick installation guide 1 x warranty card

尺寸

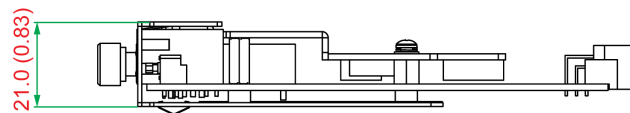
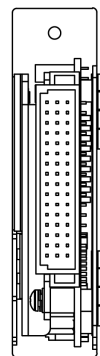
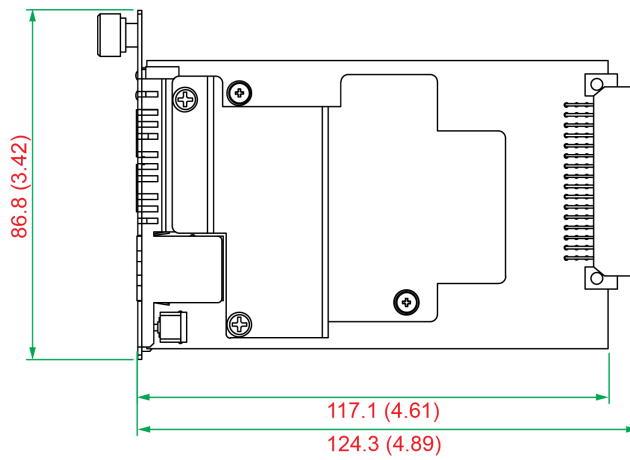
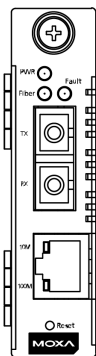
CSM-400-1213

單位：公釐 (英吋)



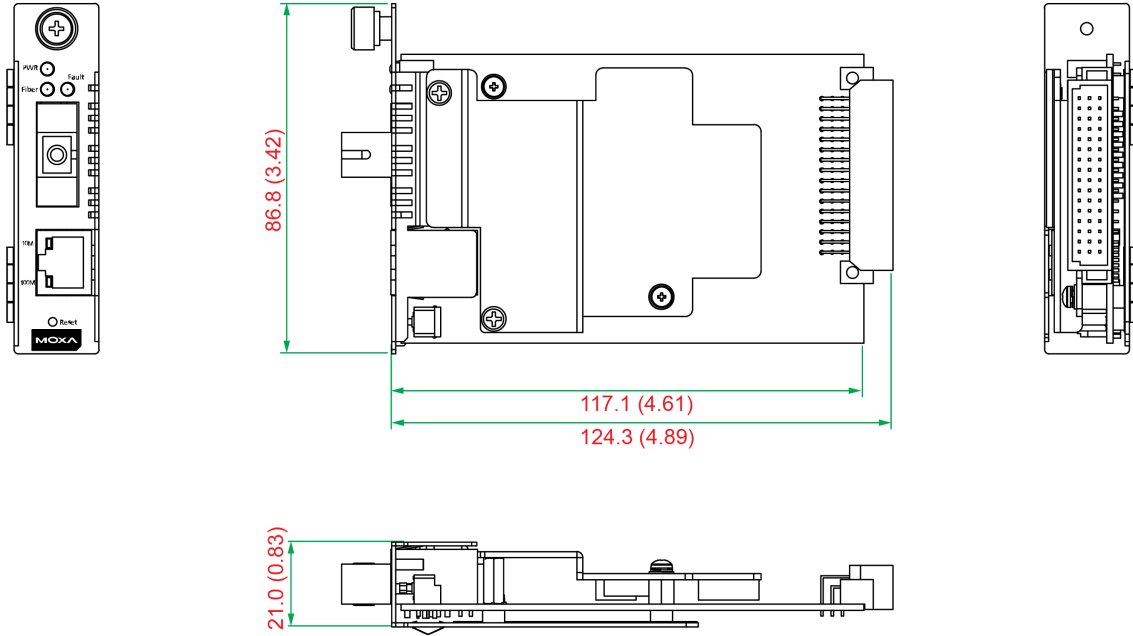
CSM-400-1214, CSM-400-1218

單位：公釐 (英吋)



CSM-400-1224, CSM-400-1225

單位：公釐（英吋）



訂購資訊

Model Name	Operating Temp.	Fiber Module Type
CSM-400-1213	-20 to 55°C	Multi-mode ST
CSM-400-1213-T	-40 to 75°C	Multi-mode ST
CSM-400-1214	-20 to 55°C	Multi-mode SC
CSM-400-1214-T	-40 to 75°C	Multi-mode SC
CSM-400-1218	-20 to 55°C	Single-mode SC
CSM-400-1218-T	-40 to 75°C	Single-mode SC
CSM-400-1224	-20 to 55°C	WDM-A single-mode SC
CSM-400-1224-T	-40 to 75°C	WDM-A single-mode SC
CSM-400-1225	-20 to 55°C	WDM-B single-mode SC
CSM-400-1225-T	-40 to 75°C	WDM-B single-mode SC

© Moxa Inc. 版權所有. 2019 年 3 月 18 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。