

# ioThinx 4500 系列 (45ML) 模組

## ioThinx 4500 系列的通訊模組



### 特色與優點

- 通訊模組包含串列介面
- 免工具輕鬆安裝和拆卸
- 提供寬溫型號：-40 至 75°C ( -40 至 167°F )

### 認證

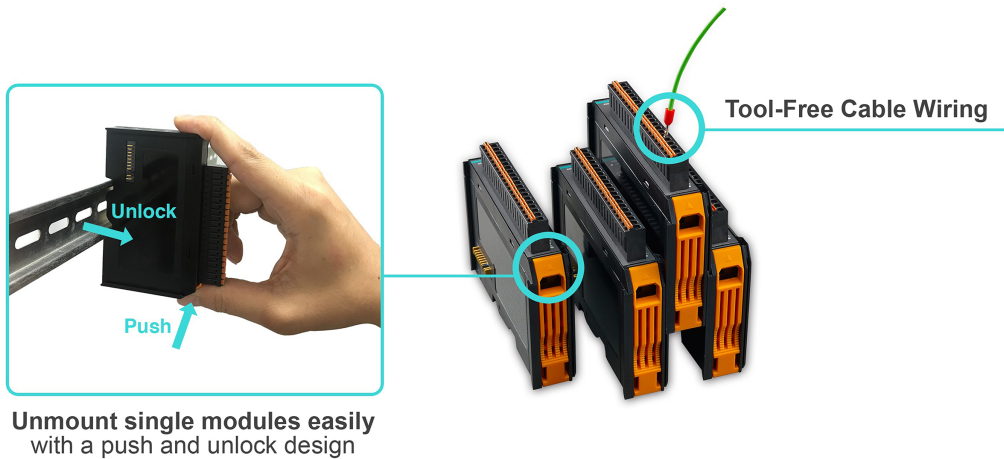


## 簡介

45ML 系列包括串列介面模組，可與 ioThinx 4500 系列主機/CPU 模組一起使用，此模組的左側裝有通訊匯流排。藉由獨特的機械設計，不需要工具即可輕鬆完成硬體安裝和拆卸，大幅減少設定和更換模組所需的時間。

### 輕鬆免工具安裝和拆卸

ioThinx 4500 系列採用獨特的機構設計，可減少安裝和拆卸所需的時間。事實上，硬體安裝的任何部分都不需要螺絲起子和其他工具，包括將裝置安裝在 DIN 導軌上，以及連接用於通訊和 I/O 訊號擷取的接線。此外，從 DIN 導軌上拆卸 ioThinx 不需要任何工具。您可輕鬆使用門鎖和解鎖片，將模組自 DIN 導軌移除。



## 規格

### Input/Output Interface

Isolation	3k VDC or 2k Vrms
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### Serial Interface

Connector	Spring-type Euroblock terminal
No. of Ports	45ML-5401 Series: 4
Serial Standards	45ML-5401 Series: RS-232, RS-422, RS-485-2w

Baudrate	45ML-5401 Series: 300, 600, 1200, 1800, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data Bits	45ML-5401 Series: 7, 8
Stop Bits	45ML-5401 Series: 1, 2
Parity	45ML-5401 Series: Even, None, Odd
Flow Control	45ML-5401 Series: RTS/CTS (RS-232 only), XON/XOFF
Pull High/Low Resistor for RS-485	45ML-5401 Series: 10 kilo-ohm
RS-485 Data Direction Control	45ML-5401 Series: ADDC® (automatic data direction control)

### Serial Signals

RS-232	TxD, RxD, RTS, CTS, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

### Power Consumption

System Power	45ML-5401 Series: 74.1 mA @ 12 VDC 45ML-5401 Series: 37.05 mA @ 24 VDC
Field Power	45ML-5401 Series: 140.4 mA @ 12 VDC 45ML-5401 Series: 59.8 mA @ 24 VDC

### Physical Characteristics

Housing	Plastic
Dimensions	26.4 x 99 x 65.5 mm (1.04 x 3.9 x 2.58 in)
Weight	45ML-5401 Series: 115 g (0.254 lb)
Installation	DIN-rail mounting
Wiring	Serial cable, 18 to 24 AWG
Strip Length	Serial cable, 9 to 10 mm

### Environmental Limits

Operating Temperature	Standard Models: -20 to 60°C (-4 to 140°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)
Altitude	Up to 2000 m <sup>1</sup>

### Standards and Certifications

EMC	EN 55032/35
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: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF

1. 如果您需要產品能在高海拔地區正常運作，請與 Moxa 聯繫。

Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

### Declaration

Green Product	RoHS, CRoHS, WEEE
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### MTBF

Time	45ML-5401 Series: 916,671 hrs
Standards	Telcordia SR332

### Warranty

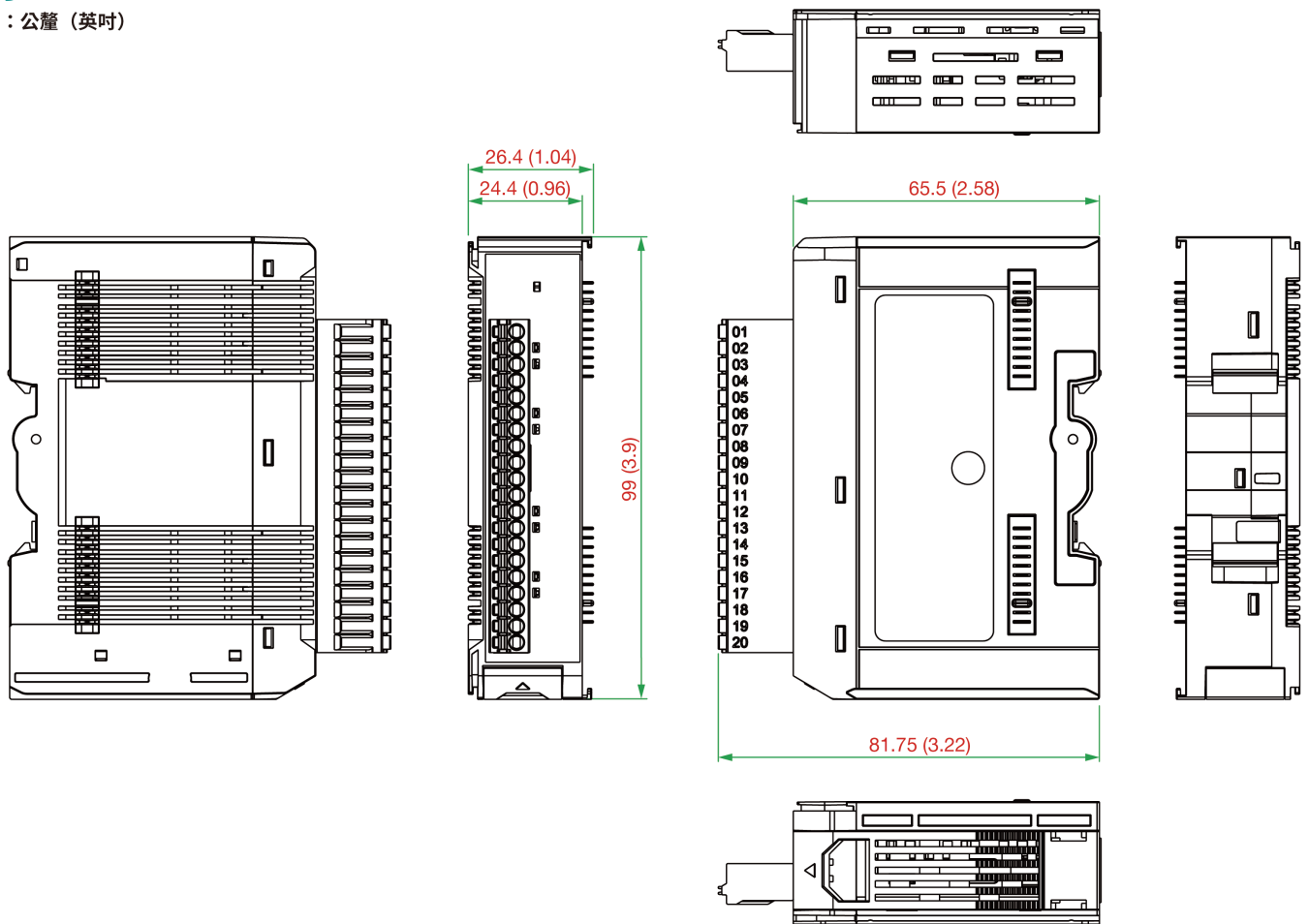
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/tw/warranty">www.moxa.com/tw/warranty</a>

### Package Contents

Device	1 x 45ML Series product
Installation Kit	1 x terminal block, 20-pin, 3.5 mm
Documentation	1 x quick installation guide 1 x warranty card

## 尺寸

單位：公釐（英吋）



## 訂購資訊

Model Name	Input/Output Interface	No. of Ports	Operating Temp.
45ML-5401	RS-232, RS-422, RS-485-2w	4	-20 to 60°C
45ML-5401-T	RS-232, RS-422, RS-485-2w	4	-40 to 75°C

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