

# NPort 5200 系列

## 2 埠 RS-232/422/485 串列設備伺服器



### 特色與優點

- 設計小巧並安裝簡易
- 通訊端模式：TCP server、TCP client、UDP
- 方便使用的 Windows 工具程式，可設定多台設備伺服器
- 用於 2 線和 4 線 RS-485 的 ADDC (自動資料流向控制)
- 用於網路管理的 SNMP MIB-II

### 認證



## 簡介

NPort® 5200 串列設備伺服器能夠讓工業串列裝置立即聯網。NPort 5200 串列設備伺服器的小巧尺寸使其成為連接 RS-232 (NPort 5210/5230/5210-T/5230-T) 或 RS-422/485 (NPort 5230/5232/5232I/5230-T/5232-T/5232I-T) 串列設備 (例如：PLC、電表和感測器) 到乙太網路 IP LAN 的最佳選擇。讓您的軟體在任何地方皆可透過區域網路或網際網路直接存取串列裝置。NPort 5200 系列具有許多實用的功能，其中包括標準 TCP/IP 通訊協定和操作模式選擇、現有軟體的 Real COM/TTY 驅動程式，以及透過 TCP/IP 或傳統 COM/TTY 連接埠遠端控制串列設備。

### 標準 TCP/IP 通訊協定和操作模式選擇

NPort 5200 設備伺服器可以在 TCP Server、TCP Client、UDP Server/Client 操作，確保與標準網路 API (例如：Winsock、BSD 通訊端) 的軟體相容。

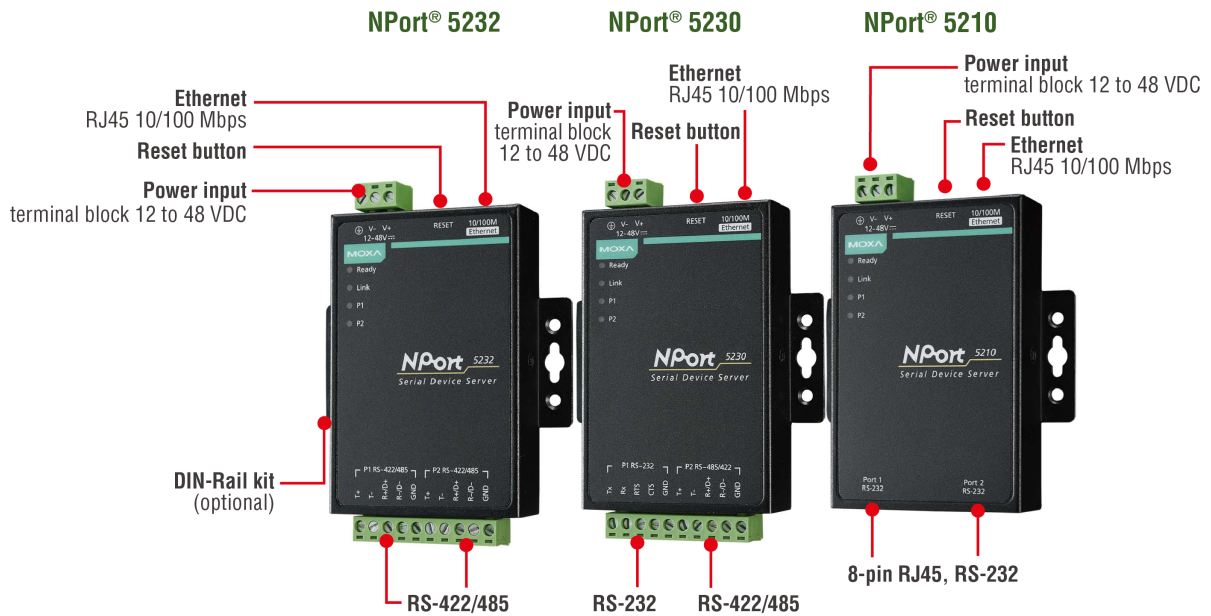
### 現有軟體的 Real COM/TTY 驅動程式

每台 NPort 提供的 Real COM/TTY 驅動程式，設計用於與 COM/TTY 連接埠通訊的軟體可以立即和 TCP/IP 網路整合。是保護軟體資產的絕佳方式，同時讓您享受連接串列裝置的效益。

### 透過 TCP/IP 或傳統 COM/TTY 連接埠遠端控制串列裝置

透過指定 NPort 5200 的 IP 位址和連接埠編號，網路通訊端 API 可以從任何支援 TCP/IP 的主機電腦經由網路存取已連接的串列設備。以 COM 或 TTY 為基礎的傳統 Windows 或 Linux 軟體，Moxa 的 COM/TTY 驅動程式使其可以透過網路來進行操作。

## 外觀



## 規格

### Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	1
Magnetic Isolation Protection	1.5 kV (built-in)

### Ethernet Software Features

Configuration Options	Windows Utility, Telnet Console, Web Console (HTTP), Serial Console
Management	DHCP Client IPv4 SNTP SMTP SNMPv1 DNS HTTP ARP BOOTP UDP TCP/IP Telnet ICMP
Windows Real COM Drivers	Windows 11/10/8.1/8/7/Vista/XP/ME/98/95 Windows Server 2022/2019/2016/2012 R2/2012/2008 R2/2008/2003/2000/NT Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Real TTY Drivers	Kernel versions: 6.x, 5.x, 4.x, 3.x, 2.6.x, and 2.4.x
Fixed TTY Drivers	macOS versions: 10.12 to 10.15, 11.x SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X
Arm®-based Platform Support	Linux Kernel 5.x/4.x
Virtual Machine	VMWare ESXi (Windows 11/10) VMware Fusion (Windows on macOS 10.12 to 11.x) Parallels Desktop (Windows on macOS 10.12 to 11.x)
Android API	Android 3.1.x and later
MIB	RFC1213, RFC1317

## Security Functions

Authentication	Local database (password only)
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## Serial Interface

Connector	NPort 5210 Models: 8-pin RJ45 NPort 5230/5232 Models: Terminal block
No. of Ports	2
Serial Standards	NPort 5210 Models: RS-232 NPort 5230 Models RS-232/422/485 <sup>1</sup> NPort 5232 Models: RS-422/485
Operation Modes	Disabled Ethernet Modem Pair Connection Real COM Reverse Telnet TCP Client TCP Server UDP
Baudrate	Supports standard baudrates (unit=bps): 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230400
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS (RS-232 only) DTR/DSR (RS-232 only) XON/XOFF
Pull High/Low Resistor for RS-485	NPort 5210 Models: None NPort 5230/5232/5232I Models: 1 kilo-ohms (fixed value)
RS-485 Data Direction Control	ADDC (automatic data direction control)
Isolation	NPort 5232I Models: 2 kV

## Serial Signals

RS-232	NPort 5210 Models: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND NPort 5230 Models: TxD, RxD, RTS, CTS, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

## Power Parameters

Input Current	NPort 5210/5230 Models: 325 mA @ 12 VDC NPort 5232/5232I Models: 280 mA @ 12 VDC, 365 mA @ 12 VDC
Input Voltage	12 to 48 VDC
No. of Power Inputs	1
Power Connector	1 removable 3-contact terminal block(s)

1. NPort 5230 型號的一個連接埠支援 RS-232，另一個連接埠支援 RS-422/485。

## Reliability

Automatic Reboot Trigger	Built-in WDT
Alert Tools	Built-in buzzer and RTC (real-time clock)

## Physical Characteristics

Housing	Metal
Dimensions (with ears)	NPort 5210/5230/5232/5232-T Models: 90 x 100.4 x 22 mm (3.54 x 3.95 x 0.87 in) NPort 5232I/5232I-T Models: 90 x 100.4 x 35 mm (3.54 x 3.95 x 1.37 in)
Dimensions (without ears)	NPort 5210/5230/5232/5232-T Models: 67 x 100.4 x 22 mm (2.64 x 3.95 x 0.87 in) NPort 5232I/5232I-T: 67 x 100.4 x 35 mm (2.64 x 3.95 x 1.37 in)
Weight	NPort 5210 Models: 340 g (0.75 lb) NPort 5230/5232/5232-T Models: 360 g (0.79 lb) NPort 5232I/5232I-T Models: 380 g (0.84 lb)
Installation	Desktop DIN-rail mounting (with optional kit) Wall mounting

## Environmental Limits

Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## 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: 0.5 kV IEC 61000-4-5 Surge: Power: 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
Safety	UL 60950-1
Maritime	NPort 5230/5232 Models: DNV
Medical	NPort 5210/5210-T: EN 55011: 2007+A2: 2007 Class A (Group 1) compliant EN 60601-1-2: 2007 compliant

## Declaration

Green Product	RoHS, CRoHS, WEEE
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## MTBF

Time	NPort 5210 Models: 381,342 hrs NPort 5230 Models: 377,937 hrs NPort 5232 Models: 309,383 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

## Warranty

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

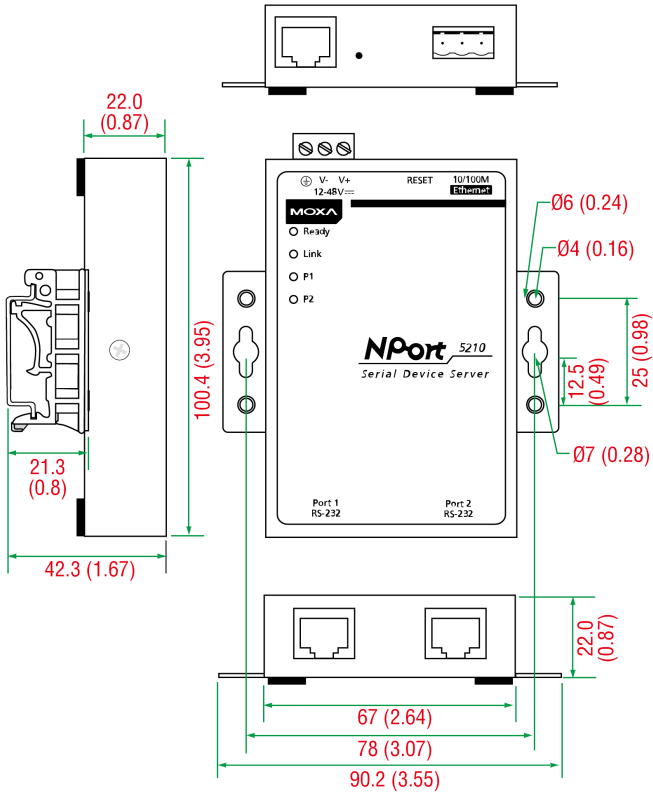
## Package Contents

Device	1 x NPort 5200 Series device server
Documentation	1 x quick installation guide 1 x warranty card

# 尺寸

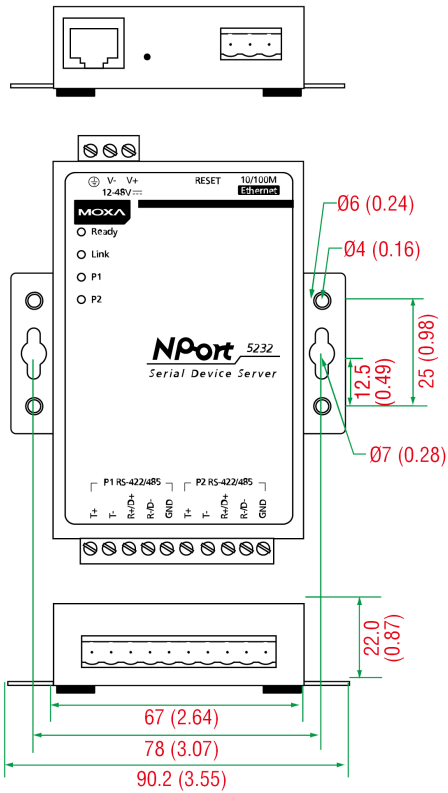
## NPort 5210

單位：公釐 (英吋)



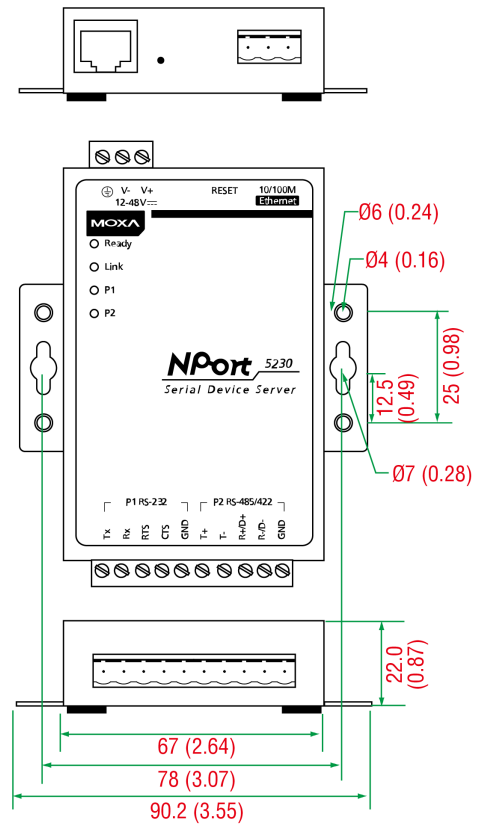
## NPort 5232

單位：公釐 (英吋)



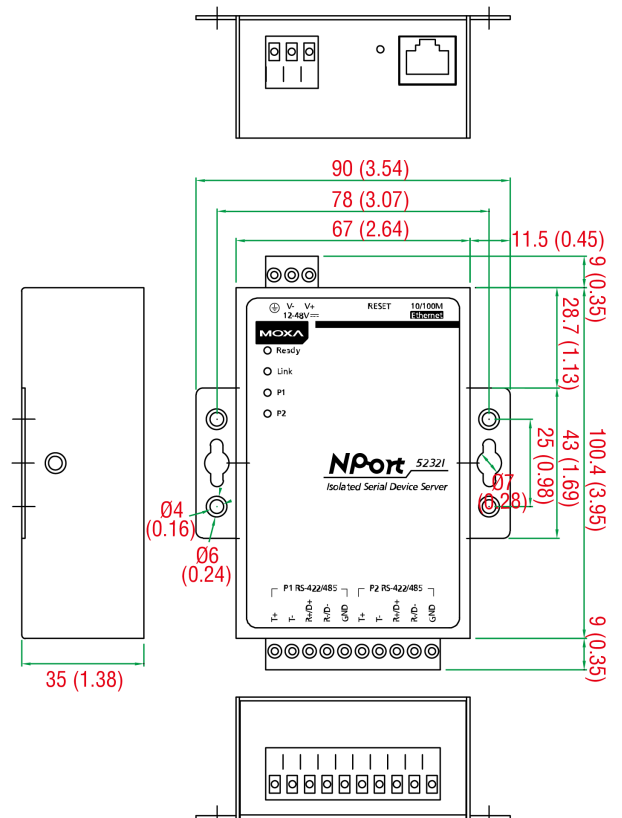
## NPort 5230

單位：公釐 (英吋)



## NPort 5232I

單位：公釐 (英吋)



## 訂購資訊

Model Name	Operating Temp.	Baudrate	Serial Standards	Serial Isolation	No. of Serial Ports	Input Voltage
NPort 5210	0 to 55°C	110 bps to 230.4 kbps	RS-232	-	2	12-48 VDC
NPort 5210-T	-40 to 75°C	110 bps to 230.4 kbps	RS-232	-	2	12-48 VDC
NPort 5230	0 to 55°C	110 bps to 230.4 kbps	RS-232/422/485	-	2	12-48 VDC
NPort 5230-T	-40 to 75°C	110 bps to 230.4 kbps	RS-232/422/485	-	2	12-48 VDC
NPort 5232	0 to 55°C	110 bps to 230.4 kbps	RS-422/485	-	2	12-48 VDC
NPort 5232-T	-40 to 75°C	110 bps to 230.4 kbps	RS-422/485	-	2	12-48 VDC
NPort 5232I	0 to 55°C	110 bps to 230.4 kbps	RS-422/485	2 kV	2	12-48 VDC
NPort 5232I-T	-40 to 75°C	110 bps to 230.4 kbps	RS-422/485	2 kV	2	12-48 VDC

## 配件 (選購)

### Cables

CBL-RJ45F25-150	8-pin RJ45 to DB25 female serial cable, 1.5 m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45F9-150	8-pin RJ45 to DB9 female serial cable, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45M9-150	8-pin RJ45 to DB9 male serial cable, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45M25-150	8-pin RJ45 to DB25 male serial cable, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45SF25-150	8-pin RJ45 to DB25 female serial cable with shielding, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45SF9-150	8-pin RJ45 to DB25 male serial cable with shielding, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45SM25-150	8-pin RJ45 to DB9 female serial cable with shielding, 1.5m Applicable Models: NPort 5210 NPort 5210-T
CBL-RJ45SM9-150	8-pin RJ45 to DB9 male serial cable with shielding, 1.5m Applicable Models: NPort 5210 NPort 5210-T

## Connectors

ADP-RJ458P-DB9F	DB9 female to RJ45 connector  Applicable Models: NPort 5210 NPort 5210-T
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## DIN-Rail Mounting Kits

DK35A	DIN-rail mounting kit, 35 mm
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## Power Adapters

PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Australia (AU) plug, -40 to 75°C operating temperature  Applicable Models: NPort 5210-T NPort 5230-T NPort 5232-T NPort 5232-T (CV-CT) NPort 5232I-T
PWR-12150-CN-SA-T	Wide-temperature (-40 to 75°C) locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, China (CN) plug  Applicable Models: NPort 5210-T NPort 5230-T NPort 5232-T NPort 5232-T (CV-CT) NPort 5232I-T
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Continental Europe (EU) plug, -40 to 75°C operating temperature  Applicable Models: NPort 5210-T NPort 5230-T NPort 5232-T NPort 5232-T (CV-CT) NPort 5232I-T
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, United Kingdom (UK) plug, -40 to 75°C operating temperature  Applicable Models: NPort 5210-T NPort 5230-T NPort 5232-T NPort 5232-T (CV-CT) NPort 5232I-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100-240 VAC, United States/Japan (US/JP) plug, -40 to 75°C operating temperature  Applicable Models: NPort 5210-T NPort 5230-T NPort 5232-T NPort 5232-T (CV-CT) NPort 5232I-T
PWR-12050-WPUSJP-S2	Non-locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature
PWR-12050-WPEU-S2	Non-locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature
PWR-12050-WPUK-S2	Non-locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature
PWR-12050-WPAU-S2	Non-locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, Australia (AU) plug, 0 to 40°C operating temperature
PWR-12050-WPCN-S2	Non-locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, China (CN) plug, 0 to 40°C operating temperature



## Power Cords

CBL-PJ21NOPEN-BK-30

Locking barrel plug to bare-wire cable

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