

# NPort 5200A 系列

## 2 埠 RS-232/422/485 串列設備伺服器



### 特色與優點

- 快速 3 步驟網頁式配置
- 串列、乙太網路和電源的突波保護
- COM 連接埠分組和 UDP 多播應用
- 螺絲式電源連接器使安裝更安全
- 電源插座和接線端子模組的雙直流電源輸入
- 多種 TCP 和 UDP 操作模式

### 認證



### 簡介

NPort® 5200A 設備伺服器能夠讓串列裝置立即聯網，也讓您的 PC 軟體在任何地方可透過網路直接存取串列裝置。NPort® 5200A 設備伺服器超精巧、堅固耐用且方便使用，提供簡單且可靠的串列轉乙太網路解決方案。

#### 更環保的串列轉乙太網路解決方案

MiiNe 是一款以 Arm 為基礎，並內嵌 RAM 和 Flash 的串列轉乙太網路 SoC，體積雖小但功能強大。相較於市場上現有的解決方案，內建 MiiNe 的 NPort® 5200A 系列可節省至少 50% 的功耗，協助工程師應對現今工業環境對於環保的要求規範。

#### 具備突波保護的串列、乙太網路和電源

突波通常是來自雷擊或設備開關間所產生的高電壓，此對電氣設備容易造成損傷。NPort® 5100A 採用了 Moxa 領先的突波保護技術，為串列、電源和乙太網路提供完整的保護，並通過 IEC 61000-4-5 認證標準。這種最進階的突波保護提供強大的串列轉乙太網路解決方案，可以讓您的電氣設備遠離電壓變化或電氣雜訊等干擾。

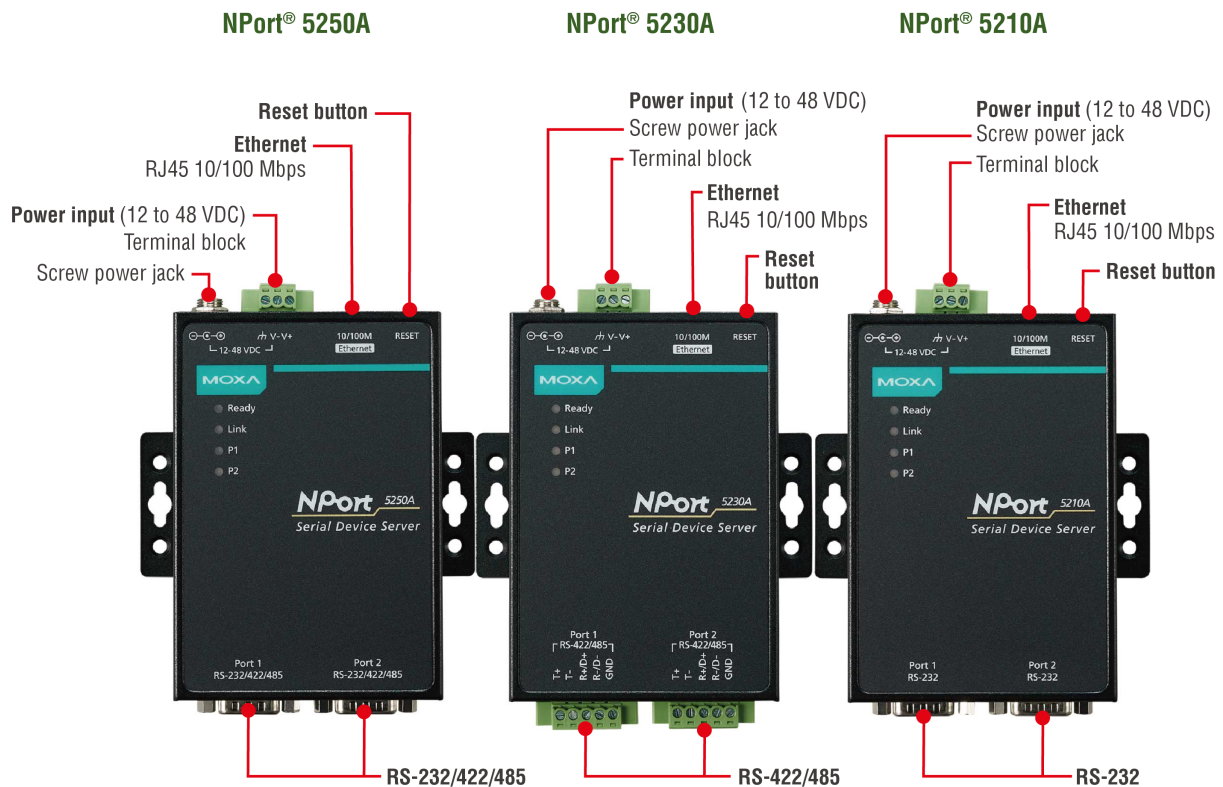
#### 僅需 3 步驟即可完成的網頁式配置

NPort® 5200A 提供簡明易懂且易於使用的網頁式配置工具，只需三個步驟便可完成設置。NPort® 5200A 的網頁式主控台將會引導使用者透過三個簡單的配置步驟，便可啟動串列轉乙太網路的應用。透過這種快速 3 步驟網頁式配置，使用者平均只需 30 秒即可完成 NPort® 設定並啟用應用程式，從而節省大量時間和精力。

#### COM 連接埠分組

NPort® 5200A 的 COM 分組功能可供您建立一個 COM 群組，並將數據重新導向到 NPort 設備伺服器上的多個實體 COM 連接埠。透過 COM 分組，您只需操作一個 COM 連接埠即可同時控制多個實體串列埠。

## 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, Serial Console, Telnet Console, Web Console (HTTP/HTTPS)   |
| Management               | ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, SMTP, SNMPv1/v2c, Telnet, TCP/IP, UDP  |
| Filter                   | IGMP v1/v2  |
| Windows Real COM Drivers | Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded |
| Linux Real TTY Drivers   | Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.x  |
| Fixed TTY Drivers        | SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X  |
| Android API              | Android 3.1.x and later   |
| MIB                      | RFC1213, RFC1317  |

### Serial Interface

|                  |  |
|------------------|--|
| Connector        | NPort 5210A/5250A Series: DB9 male<br>NPort 5230A Series: 5-pin terminal block |
| No. of Ports     | 2  |
| Serial Standards | NPort 5210A Series: RS-232<br>NPort 5230A Series: RS-422, RS-485               |

|                                   |  |
|-----------------------------------|--|
|                                   | NPort 5250A Series: RS-232, RS-422, RS-485   |
| Operation Modes                   | Disabled, Ethernet Modem, Pair Connection, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, UDP  |
| Baudrate                          | Supports standard baudrates (unit=bps): 50, 75, 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.6k |
| 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 | 1 kilo-ohm, 150 kilo-ohms  |
| RS-485 Data Direction Control     | ADDC® (automatic data direction control)   |
| Terminator for RS-485             | 120 ohms   |

### Serial Signals

|           |  |
|-----------|--|
| RS-232    | TxD, RxD, RTS, CTS, DTR, DSR, DCD, 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       | 119 mA @ 12 VDC   |
| Input Voltage       | 12 to 48 VDC  |
| No. of Power Inputs | 2   |
| Power Connector     | 1 removable 3-contact terminal block(s)<br>Power input jack |

### Reliability

|                          |              |
|--------------------------|--------------|
| Automatic Reboot Trigger | Built-in WDT |
|--------------------------|--------------|

### Physical Characteristics

|                           |   |
|---------------------------|---|
| Housing                   | Metal   |
| Dimensions (with ears)    | 100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)                     |
| Dimensions (without ears) | 77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)                      |
| Weight                    | 340 g (0.75 lb)   |
| Installation              | Desktop, DIN-rail mounting (with optional kit), Wall mounting |

### Environmental Limits

|  |   |
|--|---|
| Operating Temperature                  | Standard Models: 0 to 60°C (32 to 140°F)<br>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 55032/24   |
| EMS    | IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV<br>IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV<br>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m<br>IEC 61000-4-8 PFMF<br>IEC 61000-4-11 DIPs |
| EMI    | CISPR 32, FCC Part 15B Class A  |
| Safety | UL 60950-1  |

## Declaration

|               |                   |
|---------------|-------------------|
| Green Product | RoHS, CRoHS, WEEE |
|---------------|-------------------|

## MTBF

|           |                                     |
|-----------|-------------------------------------|
| Time      | 847,750 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> |

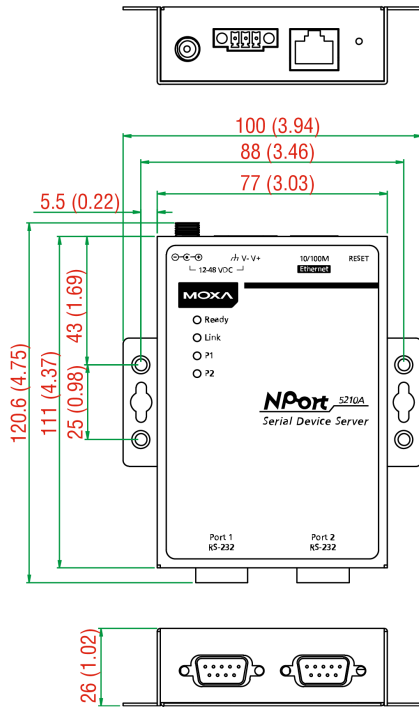
## Package Contents

|               |  |
|---------------|--|
| Device        | 1 x NPort 5200A Series device server                                     |
| Power Supply  | 1 x power adapter, suitable for your region (standard temp. models only) |
| Documentation | 1 x quick installation guide<br>1 x warranty card                        |

# 尺寸

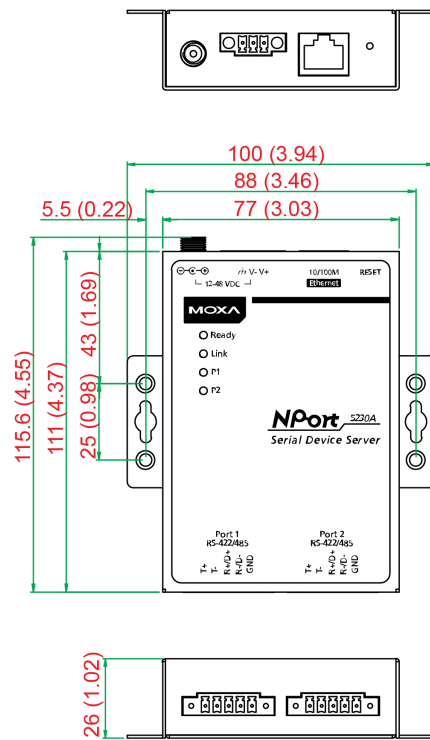
## NPort 5210A

單位：公釐（英吋）



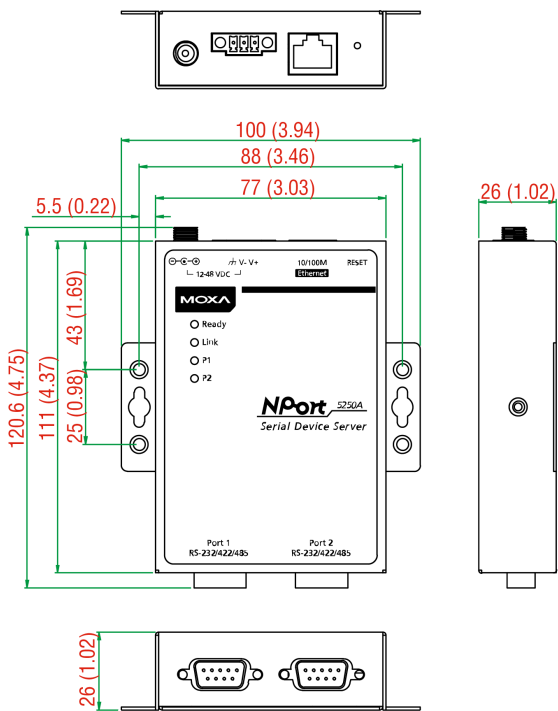
## NPort 5230A

單位：公釐（英吋）



## NPort 5250A

單位：公釐（英吋）



# 訂購資訊

| Model Name    | Operating Temp. | Baudrate             | Serial Standards | No. of Serial Ports | Input Current   | Input Voltage |
|---------------|-----------------|----------------------|------------------|---------------------|-----------------|---------------|
| NPort 5210A   | 0 to 55°C       | 50 bps to 921.6 kbps | RS-232           | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |
| NPort 5210A-T | -40 to 75°C     | 50 bps to 921.6 kbps | RS-232           | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |
| NPort 5230A   | 0 to 55°C       | 50 bps to 921.6 kbps | RS-422/485       | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |

| Model Name    | Operating Temp. | Baudrate             | Serial Standards | No. of Serial Ports | Input Current   | Input Voltage |
|---------------|-----------------|----------------------|------------------|---------------------|-----------------|---------------|
| NPort 5230A-T | -40 to 75°C     | 50 bps to 921.6 kbps | RS-422/485       | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |
| NPort 5250A   | 0 to 55°C       | 50 bps to 921.6 kbps | RS-232/422/485   | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |
| NPort 5250A-T | -40 to 75°C     | 50 bps to 921.6 kbps | RS-232/422/485   | 2                   | 119 mA @ 12 VDC | 12-48 VDC     |

## 配件 (選購)

### Cables

|              |  |
|--------------|--|
| CBL-F9M9-150 | DB9 female to DB9 male serial cable, 1.5 m |
| CBL-F9M9-20  | DB9 female to DB9 male serial cable, 20 cm |

### Connectors

|                 |  |
|-----------------|--|
| ADP-RJ458P-DB9F | DB9 female to RJ45 connector           |
| Mini DB9F-to-TB | DB9 female to terminal block connector |

### DIN-Rail Mounting Kits

|       |                              |
|-------|------------------------------|
| DK35A | DIN-rail mounting kit, 35 mm |
|-------|------------------------------|

### Power Adapters

|                     |  |
|---------------------|--|
| PWR-12050-WPAU-S1   | Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, Australia (AU) plug, 0 to 40°C operating temperature   |
| PWR-12050-WPCN-S1   | Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, China (CN) plug, 0 to 40°C operating temperature   |
| PWR-12050-WPEU-S1   | Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature  |
| PWR-12050-WPUK-S1   | Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature  |
| PWR-12050-WPUSJP-S1 | Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature  |
| PWR-12150-AU-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, Australia (AU) plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 5210A-T<br>NPort 5230A-T<br>NPort 5250A-T          |
| PWR-12150-CN-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, China (CN) plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 5210A-T<br>NPort 5230A-T<br>NPort 5250A-T              |
| PWR-12150-EU-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, Continental Europe (EU) plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 5210A-T<br>NPort 5230A-T<br>NPort 5250A-T |
| PWR-12150-UK-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, United Kingdom (UK) plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 5210A-T<br>NPort 5230A-T<br>NPort 5250A-T     |
| PWR-12150-USJP-SA-T | Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, United States/Japan (US/JP) plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 5210A-T                                |

NPort 5230A-T  
NPort 5250A-T

## Power Cords

CBL-PJ21NOPEN-BK-30

Locking barrel plug to bare-wire cable

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