

NPort 5100 系列

1 埠 RS-232/422/485 串列設備伺服器



特色與優點

- 小尺寸容易安裝
- 用於 Windows、Linux 及 macOS 的 Real COM/TTY 驅動程式
- 標準 TCP/IP 介面和多樣化操作模式
- 方便使用的 Windows 工具程式，可設定多台設備伺服器
- 用於網路管理的 SNMP MIB-II
- 透過 Telnet、網頁瀏覽器或 Windows 工具程式進行設定
- 針對 RS-485 連接埠的可調整的上拉/下拉電阻

認證



簡介

NPort® 5100 設備伺服器能夠使串列裝置立即聯網。小巧體積的伺服器成為讀卡機和付款終端機等裝置連接到乙太網路 IP LAN 的最佳選擇。使用 NPort 5100 設備伺服器，讓您的 PC 軟體在任何地方可透過網路直接存取串列裝置。

最符合成本效益的串列轉乙太網路解決方案

使用串列設備伺服器將傳統串列設備連接到乙太網路現在已經很普及，使用者期望設備伺服器可以符合成本效益，並提供多種實用功能。NPort® 5100 系列全面支援 Microsoft 和 Linux 作業系統，並提供 5 年保固，是串列轉乙太網路轉換器的最佳選擇。

可調整的終端器和上拉/下拉電阻

在某些嚴苛環境中，可能需要終端電阻來防止串列訊號的反射。使用終端電阻時，必須正確設定上拉/下拉電阻，以防止電器訊號被破壞。因為沒有電阻值可以相容於所有的環境，所以 NPort® 5100 設備伺服器有配備 Jumper，用來調整每個串列埠的終端器和上拉/下拉電阻值。

標準 TCP/IP 介面和多種操作模式選擇

NPort® 5100 設備伺服器可針對 TCP Server、TCP Client、UDP Server/Client、配對連線或乙太網路數據機模式進行設定，確保與標準網路 API（例如：Winsock 或 BSD 通訊端）的軟體相容。

現有軟體的 Real COM/TTY 驅動程式

NPort® 5100 設備伺服器提供的 Real COM/TTY 驅動程式，讓您透過 COM/TTY 埠繼續使用專為通訊而設計的軟體。安裝和配置相當簡單，而且可讓您的串列設備和 PC 可以透過 TCP/IP 網路順利通訊。使用 Moxa 的 Real COM/TTY 驅動程式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。

輕鬆排除故障

NPort® 5100 設備伺服器支援 SNMP，可透過乙太網路監控所有設備。一旦使用者定義的問題狀況發生，設備便可自動發送 trap 訊息給 SNMP 管理者。對於不使用 SNMP 管理員的使用者，它也可以通過 email 發送警報資訊。使用者可以使用 Moxa Windows utility 或 Web 主控台定義警示的觸發條件。例如：暖開機、冷開機或更改密碼時會觸發告警

規格

Ethernet Interface

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

Ethernet Software Features

Configuration Options	Serial Console (NPort 5110/5110-T/5150 only), Windows Utility, Telnet Console, Web Console (HTTP)
Management	DHCP Client IPv4 SMTP SNMPv1 Telnet DNS HTTP ARP BOOTP UDP TCP/IP ICMP
Windows Real COM Drivers	Windows 11, 10, 8.1, 8, 7, Vista, XP, ME, 98, and 95 Windows Server 2022, 2019, 2016, 2012 R2, 2012, 2008 R2, 2008, 2003, 2000, and NT Windows Embedded CE 6.0 and 5.0, 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: 14, 13, 12, 11, and 10.1x 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	Windows 11 Linux kernel 6.x, 5.x, and 4.x macOS 14, 13, 12, and 11
Virtual Machine	VMWare ESXi (Windows 11/10) VMware Fusion (Windows on macOS 14, 13, 12, 11, and 10.1x) Parallels Desktop (Windows on macOS 14, 13, 12, 11, and 10.1x)
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	DB9 male
No. of Ports	1
Serial Standards	NPort 5110/5110-T: RS-232 NPort 5130: RS-422, RS-485 NPort 5150: RS-232, RS-422, RS-485
Operation Modes	Disabled Ethernet Modem Pair Connection Real COM Reverse Telnet TCP Client TCP Server UDP
Baudrate	NPort 5110/5110-T: 110 bps to 230.4 kbps NPort 5130/5150: 50 bps to 921.6 kbps
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 5130/5150: 1 kilo-ohm, 150 kilo-ohms
RS-485 Data Direction Control	NPort 5130/5150: Automatic Data Direction Control (ADDC)

Serial Signals

RS-232	NPort 5110: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND NPort 5150: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	NPort 5130: Tx+, Tx-, Rx+, Rx-, GND NPort 5150: Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	NPort 5130: Tx+, Tx-, Rx+, Rx-, GND NPort 5150: Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	NPort 5130: Data+, Data-, GND NPort 5150: Data+, Data-, GND

Power Parameters

Input Current	NPort 5110/5110-T: 128 mA @ 12 VDC NPort 5130/5150: 200 mA @ 12 VDC
Input Voltage	12 to 48 VDC
No. of Power Inputs	1
Source of Input Power	Power input jack

Physical Characteristics

Housing	Metal
Installation	Desktop DIN-rail mounting (with optional kit) Wall mounting
Dimensions (with ears)	75.2 x 80 x 22 mm (2.96 x 3.15 x 0.87 in)
Dimensions (without ears)	52 x 80 x 22 mm (2.05 x 3.15 x 0.87 in)
Weight	340 g (0.75 lb)

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

訂購資訊

Model Name	Operating Temp.	Baudrate	Serial Standards	Input Current	Input Voltage
NPort 5110	0 to 55°C	110 bps to 230.4 kbps	RS-232	128.7 mA @ 12 VDC	12-48 VDC
NPort 5110-T	-40 to 75°C	110 bps to 230.4 kbps	RS-232	128.7 mA @ 12 VDC	12-48 VDC
NPort 5130	0 to 55°C	50 bps to 921.6 kbps	RS-422/485	200 mA @ 12 VDC	12-48 VDC
NPort 5150	0 to 55°C	50 bps to 921.6 kbps	RS-232/422/485	200 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
CBL-RJ45SF9-150	8-pin RJ45 to DB9 female serial cable with shielding, 1.5m
CBL-RJ458P-100	8-pin RJ45 CAT5 Ethernet cable, 1 m

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
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Power Adapters

PWR-12050-USJP-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature
PWR-12050-EU-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature
PWR-12050-CN-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature
PWR-12050-UK-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature
PWR-12050-AU-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature
PWR-12050-KR-S2	Unlocking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, KR plug, 0 to 40°C operating temperature
PWR-12050-IN-S2	PWR-12050-IN-S2
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature Applicable Models: NPort 5110-T
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, -40 to 75°C operating temperature Applicable Models: NPort 5110-T
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, -40 to 75°C operating temperature Applicable Models: NPort 5110-T
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, -40 to 75°C operating temperature Applicable Models: NPort 5110-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, US/JP plug, -40 to 75°C operating temperature Applicable Models: NPort 5110-T

Power Cords

CBL-PJ21NOPEN-BK-30	Locking barrel plug to bare-wire cable
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