

NPort® 5200A Series

2-port RS-232/422/485 serial device servers



- > Speedy 3-step web-based configuration
- > Surge protection for serial, Ethernet, and power lines
- > COM port grouping and UDP multicast applications
- > Screw connectors for secure installation
- > Dual DC power inputs with power jack and terminal block
- > Versatile TCP and UDP operation modes



Overview

The NPort® 5200A device servers are designed to make serial devices network-ready in an instant and give your PC software direct access to serial devices from anywhere on the network. The NPort® 5200A

device servers are ultra lean, ruggedized, and user friendly, making simple and reliable serial to Ethernet solutions possible.

A Greener Serial-to-Ethernet Solution

The Moxa MiiNe is a small but powerful ARM-based serial-to-Ethernet SoC with RAM and Flash embedded. The NPort® 5200A series saves at least 50% on power consumption compared to existing solutions on the market, helping engineers meet the tough environmental

compliance challenges found in today's industrial environments.



Surge-protected Serial, Ethernet, and Power Lines

Surge, which is typically caused by high voltages that result from switching and lightning transients, is a common threat to all electrical devices. Moxa's leading-edge surge immunity solution, which is applied to the NPort® 5200A's serial, power, and Ethernet lines, is tested and proven compliant with IEC 61000-4-5. This state-of-the-art

surge protection provides a robust serial-to-Ethernet solution that can protect electrical devices from voltage spikes and withstand electrically noisy environmental conditions.



3-step Web-based Configuration

The NPort® 5200A's 3-step web-based configuration tool is straightforward and user-friendly. The NPort® 5200A's web console guides users through 3 simple configuration steps that are necessary to activate the serial-to-Ethernet application. With this speedy 3-step web-based configuration, a user only needs to spend an average of

30 seconds to complete the NPort® settings and enable the application, saving a great amount of time and effort.

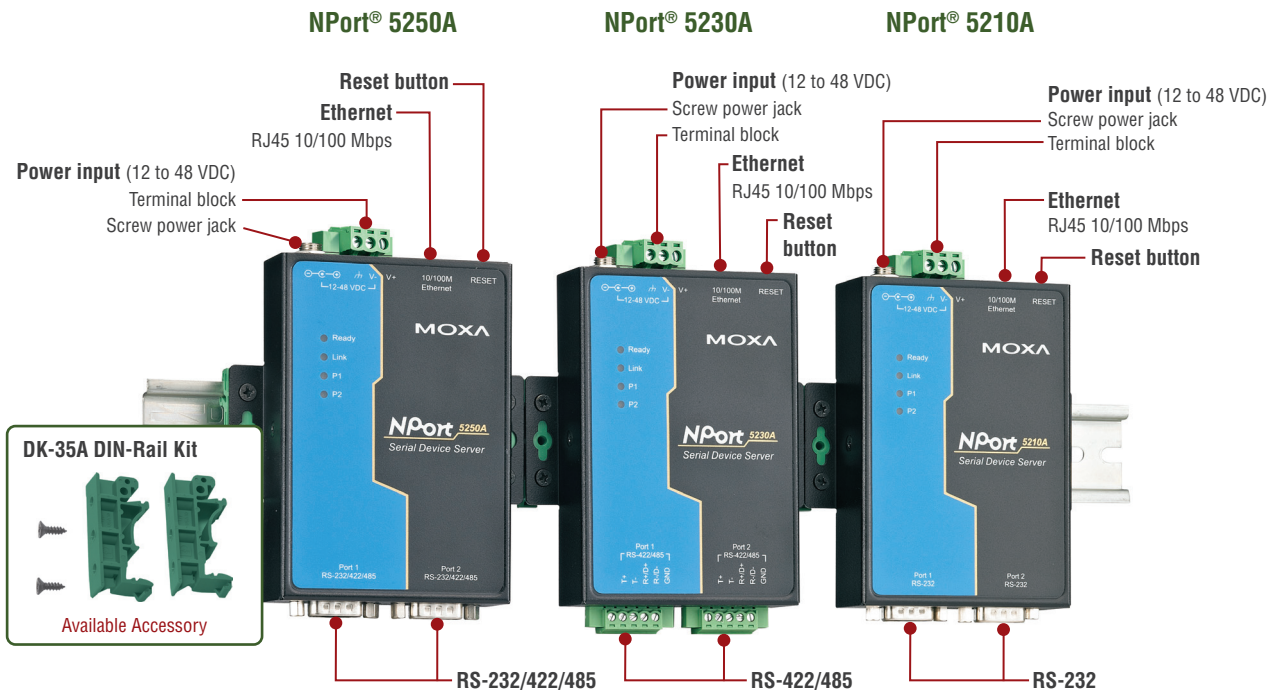


COM Port Grouping

The NPort® 5200A's COM Grouping function allows you to create a COM Group and redirect data from it to several physical COM ports on NPort device servers. With COM Grouping, you will be able to control

multiple physical serial ports simultaneously by operating only one COM port.

Appearance



Specifications

Ethernet Interface

- Number of Ports:** 1
- Speed:** 10/100 Mbps, auto MDI/MDIX
- Connector:** 8-pin RJ45
- Magnetic Isolation Protection:** 1.5 KV built-in
- Ethernet Line Protection:** EN 61000-4-5 (Surge) Level 2

Serial Interface

- Number of Ports:** 2
- Serial Standards:**
 - NPort 5210A: RS-232
 - NPort 5230A: RS-422/485
 - NPort 5250A: RS-232/422/485
- Connector:**
 - NPort 5210A/5250A: DB9 male
 - NPort 5230A: Terminal Block (5 pins per port)
- Serial Line Protection:** 15 KV ESD protection for all signals, EN 61000-4-5 (Surge) Level 1
- RS-485 Data Direction Control:** ADDC® (automatic data direction control)
- Pull High/Low Resistor for RS-485:** 1 KΩ, 150 KΩ

Serial Communication Parameters

- Data Bits:** 5, 6, 7, 8
- Stop Bits:** 1, 1.5, 2
- Parity:** None, Even, Odd, Space, Mark
- Flow Control:** RTS/CTS and DTR/DSR (RS-232 only), XON/XOFF
- Baudrate:** 50 bps to 921.6 Kbps

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

Software

- Network Protocols:** ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP V1, HTTP, SMTP, IGMP V1/2
- Configuration Options:** Web Console (with new Quick Setup), Serial Console (NPort 5210A/5250A only), Telnet Console, Windows Utility

Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64

Fixed TTY Drivers: SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac 10.3

Linux Real TTY Drivers: Linux kernel 2.4.x, 2.6.x, 3.0.x

Physical Characteristics

- Housing:** Metal
- Weight:** 340 g
- Dimensions:**
 - Without ears: 77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)
 - With ears: 100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)

Environmental Limits

- Operating Temperature:**
 - Standard Models: 0 to 60°C (32 to 140°F)
 - Wide Temp. Models: -40 to 75°C (-40 to 167°F)
- Storage Temperature:** -40 to 75°C (-40 to 167°F)
- Ambient Relative Humidity:** 5 to 95% (non-condensing)

Power Requirements

- Input Voltage:** 12 to 48 VDC
- Power Consumption:** 119 mA @ 12V, 65 mA @ 24V

Standards and Certifications

- Safety:** UL 60950-1, EN 60950-1
- EMC:** CE, FCC
- EMI:** EN 55022 Class A, FCC Part 15 Subpart B Class A
- EMS:** EN 55024

Power Line Protection:

- EN 61000-4-4 (EFT) Level 2,
- EN 61000-4-5 (Surge) Level 3

Reliability

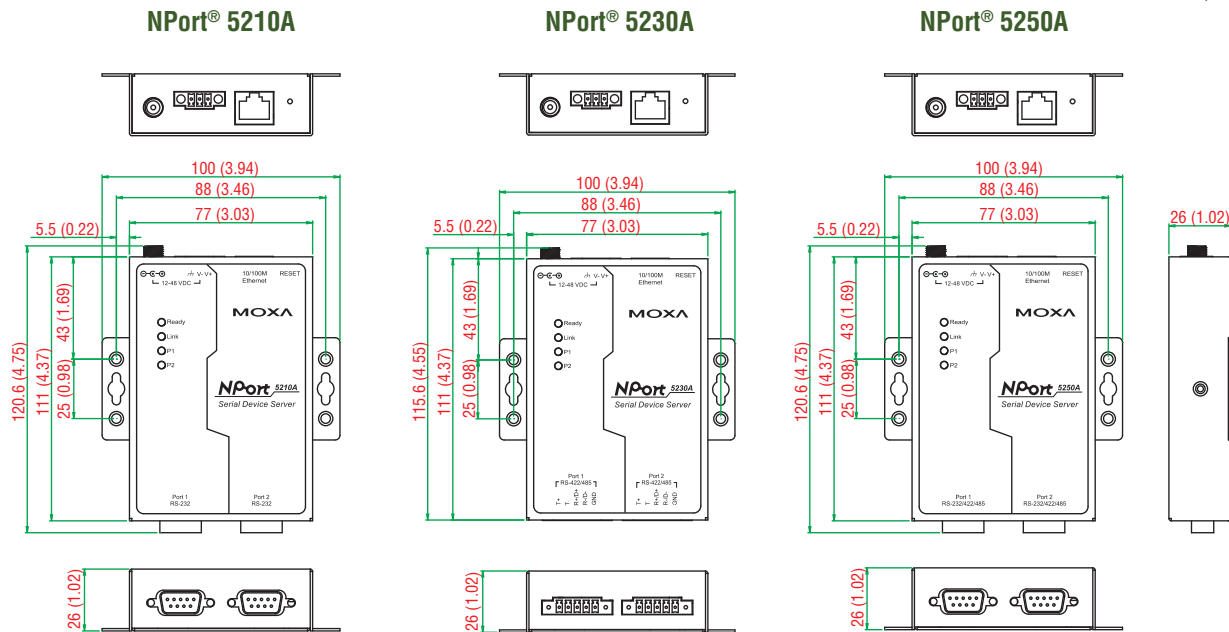
- Automatic Reboot Trigger:** Built-in WDT (watchdog timer)
- MTBF (mean time between failures):** 847,750 hrs

Warranty

- Warranty Period:** 5 years
- Details:** See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Pin Assignment

NPort® 5250A (RS-232/422/485)

PIN	RS-232	RS-422/485-4w	RS-485-2w
1	DCD	TxD-(A)	-
2	RxD	TxD+(B)	-
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-

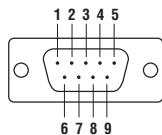
NPort® 5230A (RS-422/485)

PIN	RS-422/485-4w	RS-485-2w
1	TxD+(B)	-
2	TxD-(A)	-
3	RxD+(B)	Data+(B)
4	RxD-(A)	Data-(A)
5	GND	GND

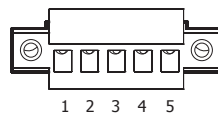
NPort® 5210A (RS-232)

PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

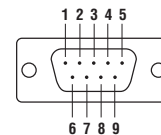
DB9 male connector



5-contact terminal block



DB9 male connector



Ordering Information

Available Models

- NPort 5210A: 2-port RS-232 device server, 0 to 60°C operating temperature
- NPort 5230A: 2-port RS-422/485 device server, 0 to 60°C operating temperature
- NPort 5250A: 2-port RS-232/422/485 device server, 0 to 60°C operating temperature
- NPort 5210A-T: 2-port RS-232 device server, -40 to 75°C operating temperature
- NPort 5230A-T: 2-port RS-422/485 device server, -40 to 75°C operating temperature
- NPort 5250A-T: 2-port RS-232/422/485 device server, -40 to 75°C operating temperature

Optional Accessories (can be purchased separately)

- DK-35A: Mounting Kit for 35-mm DIN-Rail
- PWR-12150-USJP-SA-T: 100 to 240 VAC input, 12 VDC/1.5A output, -40 to 75°C, screw type, US/JP Plug
- PWR-12150-EU-SA-T: 100 to 240 VAC input, 12 VDC/1.5A output, -40 to 75°C, screw type, EU Plug
- PWR-12150-UK-SA-T: 100 to 240 VAC input, 12 VDC/1.5A output, -40 to 75°C, screw type, UK Plug
- PWR-12150-CN-SA-T: 100 to 240 VAC input, 12 VDC/1.5A output, -40 to 75°C, screw type, CN Plug
- PWR-12150-AU-SA-T: 100 to 240 VAC input, 12 VDC/1.5A output, -40 to 75°C, screw type, AU Plug

Package Checklist

- NPort 5200A device server
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.