NPort® 5200A Series

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



- > World's lowest power consumption
- > 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



Cverview 3

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

***** 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. With the MiiNe inside, the NPort® 5200A series becomes the lowest power consumption device server in the world. The NPort® 5200A series saves at least 50% on power consumption compared to existing solutions on the device servers are ultra lean, ruggedized, and user friendly, making simple and reliable serial to Ethernet solutions possible.

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

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

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

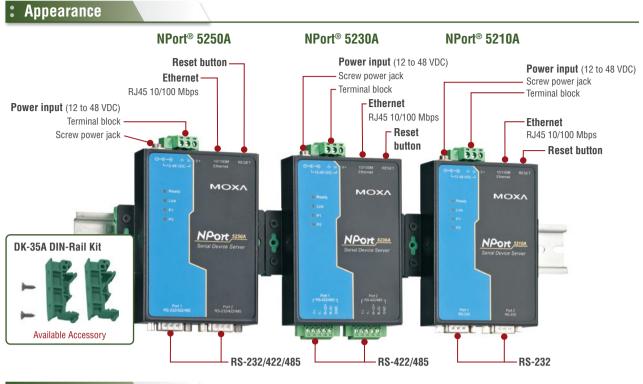
surge protection provides a robust serialto-Ethernet solution that can protect electrical devices from voltage spikes and withstand electrically noisy environmental conditions.



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



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



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: Level 2 Surge, EN61000-4-5

Serial Interface

Number of Ports: 2

Serial Standards: NPort® 5210A: RS-232 NPort® 5230A: RS-422/485

NPort® 5250A: RS-232/422/485 Connector:

connector:

NPort 5210A/5250A: DB9 male NPort 5230A: Terminal Block (5 pins per port)

Serial Line Protection: 15 KV ESD protection for all signals, Level 1 Surge, EN61000-4-5

RS-485 Data Direction Control: ADDC B (automatic data direction control)

Pull High/Low Resistor for RS-485: 1 K Ω , 150 K Ω 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

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) Operating Humidity: 5 to 95% RH Storage Temperature: -40 to 85°C (-40 to 185°F)

Power Requirements

Input Voltage: 12 to 48 VDC

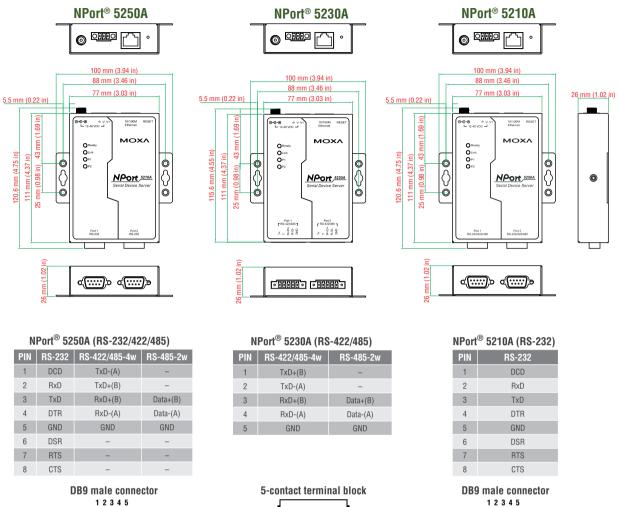
Power Consumption: 119 mA @ 12V, 65 mA @ 24V

Regulatory Approvals

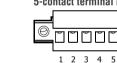
Power Line Protection: Level 2 Burst (EFT), EN61000-4-4, Level 3 Surge, EN61000-4-5 EMC: CE (EN55022 Class A, EN55024), FCC Part 15 Subpart B Class A Safety: UL (UL60950-1), LVD (EN60950-1) Reliability Automatic Reboot Trigger: Built-in WDT (watchdog timer) Warranty Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions







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 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

Package Checklist

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- NPort® 5200A series device server
- Power Adaptor (only for non-T models)
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card