#### NPort Serial Device Server Solutions

# NPort 5200 Series

# **2-Port Universal Serial Device Servers**

# **Features**

- Make your serial devices Internet ready
- Versatile socket operation modes, including TCP Server, TCP Client, UDP
- Easy-to-use Windows Utility for mass installation
- Cigarette pack size
- 10/100 Mbps Ethernet
- 2- or 4-wire RS-485 with patented Automatic Data Direction Control (ADDC<sup>™</sup>)
- Built-in 15 KV ESD protection for all serial signals
- Supports SNMP MIB-II for network management



## Connect Serial Devices to Ethernet

NPort 5200 Series serial device servers are designed to make your industrial serial devices Internet ready instantly. The compact size of the NPort 5200 device servers makes them the ideal choice for connecting your RS-232 or RS-422/485

# Standard TCP/IP Interface and Versatile Operation Modes

NPort 5200 Series serial device servers provide TCP Server, TCP Client, and UDP, ensuring the compatibility of network

### Real COM/TTY Drivers for Existing Software

Thanks to NPort's Real COM/TTY drivers, software that works with COM/TTY ports can now work on a TCP/IP network in no time. This excellent feature preserves your software

# Easy installation and configuration

NPort 5200 Series serial device servers support automatic IP configuration protocols (DHCP, BootP) and manual configuration through the Web Console, Telnet Console, Serial Console and Utility. Both methods ensure quick and effective installation. And

serial devices, such as PLCs, meters, and sensors, to an IPbased Ethernet LAN, making it possible for your software to access serial devices located anywhere on a local LAN, or the Internet.

**NPort 5210** 

NPort 5230/5232

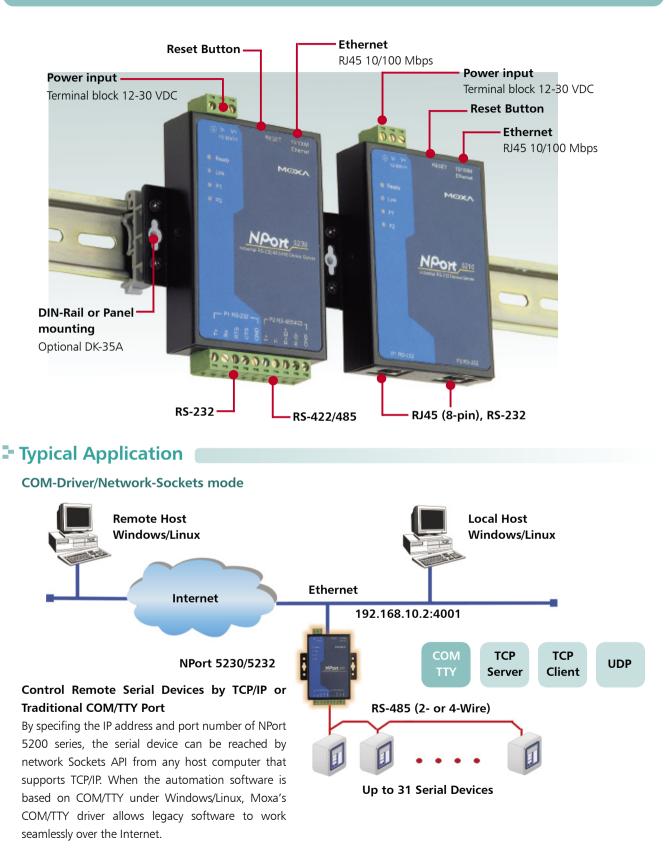
software that uses a standard network API (Winsock, BSD Sockets).

your serial devices instantly.

investment and lets you enjoy the benefits of networking

with NPort 5200's Windows Utility, your installation job becomes more pleasant than ever, since all system parameters can be stored and copied to many other device servers.

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# Specifications

#### LAN

Ethernet: 10/100 Mbps, RJ45 Protection: Built-in 1.5 KV magnetic isolation

#### NPort 5210 Serial Interface

2 RS-232 ports, RJ45 (8-pin) RS-232 Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

#### NPort 5230 Serial Interface

1 RS-232 port 1 RS-422/485 port RS-232 Signals: TxD, RxD, RTS, CTS, GND

NPort 5230/5232/5232I RS-422/485 Interface

**RS-422**: Tx+, Tx-, Rx+, Rx-, GND **RS-485 (2-wire)** : Data+, Data-, GND **RS-485 (4-wire)**: Tx+, Tx-, Rx+, Rx-, GND

#### **RS-485 Data Direction:**

Patented Automatic Data Direction Control (ADDC™) Serial Line Protection: 15 KV ESD for all signals

#### **Power Line protection:**

4 KV Burst (EFT), EN61000-4-4 2 KV Surge, EN61000-4-5 Built-in Buzzer Built-in Real Time Clock Built-in Watch Dog Timer Serial Communication Parameters Parity: None, Even, Odd, Space, Mark Data Bits: 5, 6, 7, 8 Stop Bit: 1, 1.5, 2

Flow Control: RTS/CTS (only for RS-232 port), XON/XOFF Speed: 50 bps to 230.4 Kbps

#### Software Features

Protocols: ICMP, IP, TCP, UDP, DHCP, BootP, Telnet, DNS, SNMP, HTTP, SMTP, SNTP Utilities: NPort Administrator for Windows 95/98/ME/NT/2000/XP/2003 Real COM/TTY Drivers: Windows 95/98/ME/NT/2000/XP/2003 COM driver, Linux real TTY driver

**Configuration:** Web browser, Telnet console, Windows utility, or Serial console (5210/5230)

#### Power Requirements

Power Input: 12 to 30 VDC Power Consumption: 5210: 305 mA at 12V (max.) 5230: 315 mA at 12V (max.) 5232: 274 mA at 12V (max.) 5232I: 365 mA at 12V (max.)

#### **Mechanical Specifications**

Material: Aluminum (1 mm) Gross Weight: 5210: 0.135 kg (0.30 lb) 5230: 0.140 kg (0.31 lb) 5232: 0.119 kg (0.26 lb) 5232I: 0.157 kg (0.35 lb)

#### Environmental

**Operating temperature:** 0 to 55°C (32 to 131°F), 5 to 95% RH

Storage temperature: -20 to 85°C (-4 to 185°F), 5 to 95% RH

# **Regulatory Approvals**

EMC: FCC Class A, CE Class A Safety: UL, CUL, TÜV

# Ordering Information

**NPort 5210:** 2-port RS-232 serial device server **NPort 5230:** 1-port RS-422/485 and 1-port RS-232 serial device server

NPort 5232: 2-port RS-422/485 serial device server NPort 5232I: 2-port RS-422/485 serial device server with 2 KV isolation

#### All Items Include

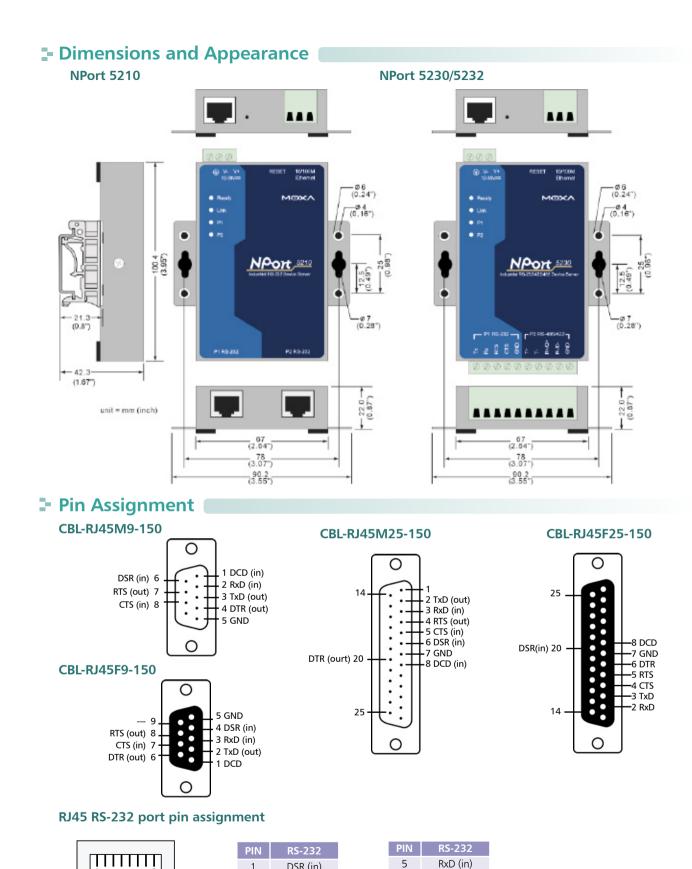
- 1 serial device server
- Quick Installation Guide
- NPort Documention and Software CD-ROM
- \* Power adaptor, DIN-Rail Power Supplies, and RJ45 to DB9 or DB25 serial cable are optional accessories

# Optional Accessories

**DK-35A:** DIN-Rail Mounting Kit (35 mm) **DIN-Rail Power Supply:** See page 7-5 for more detailed information

Power adaptor: See page 7-6 for more detailed information CBL-RJ45M9-150: RJ45 (8-pin) to DB9 Male cable, 150 cm CBL-RJ45F9-150: RJ45 (8-pin) to DB9 Female cable, 150 cm CBL-RJ45M25-150: RJ45 (8-pin) to DB25 Male cable, 150 cm CBL-RJ45F25-150: RJ45 8-pin to DB25 Female cable, 150 cm \* See page 7-4 for more detailed information





1

2

3

4

DSR (in)

RTS (out)

GND

TxD (out)

6

7

8

DCD (in)

CTS (in)

DTR (out)