

## NPort 5210, 5230

### 2-Port Universal Serial Device Server

#### 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 (ADDCTM)*
- *Built-in 15 KV ESD protection for all serial signals*
- *Supports SNMP MIB-II for network management*



NPort 5210



NPort 5230

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

#### Standard TCP/IP Interface and Versatile Operation Modes

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

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

#### 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

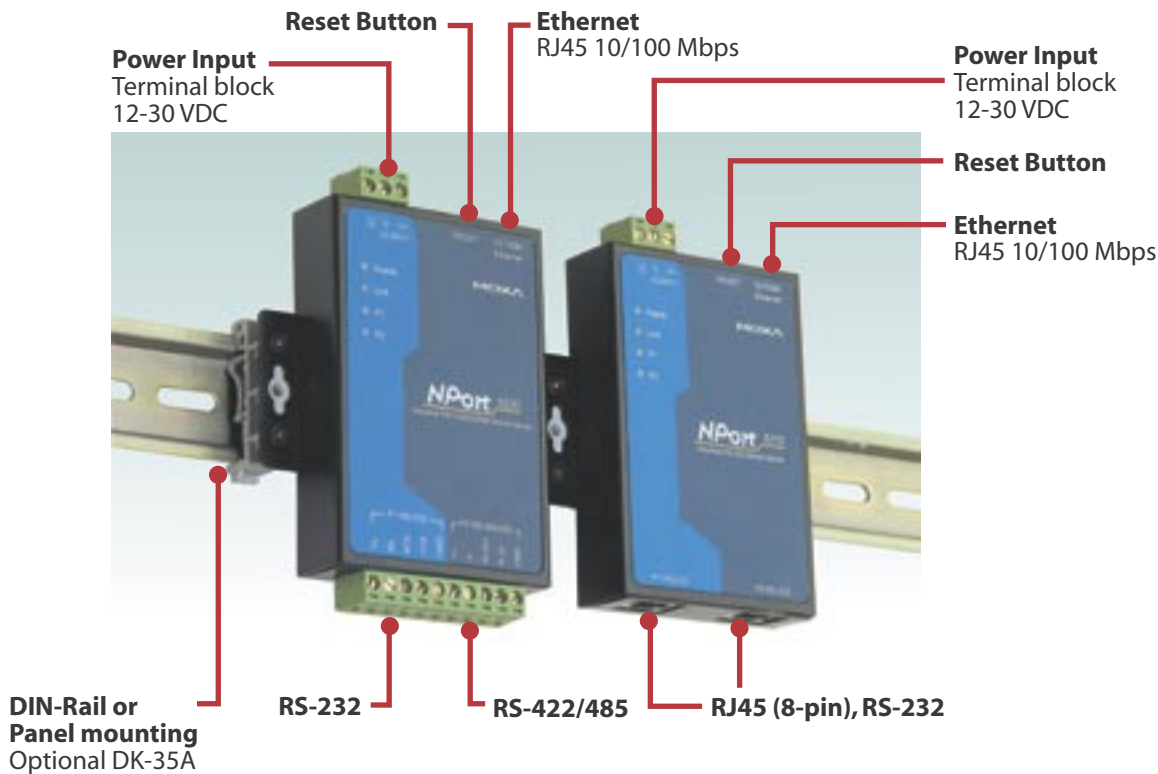
investment and lets you enjoy the benefits of networking your serial devices instantly.

#### Easy installation and configuration

NPort 5200 serial device servers support automatic IP configuration protocols (DHCP, BootP) and manual configuration through the Web Browser console. Both methods ensure quick and effective installation. And with NPort

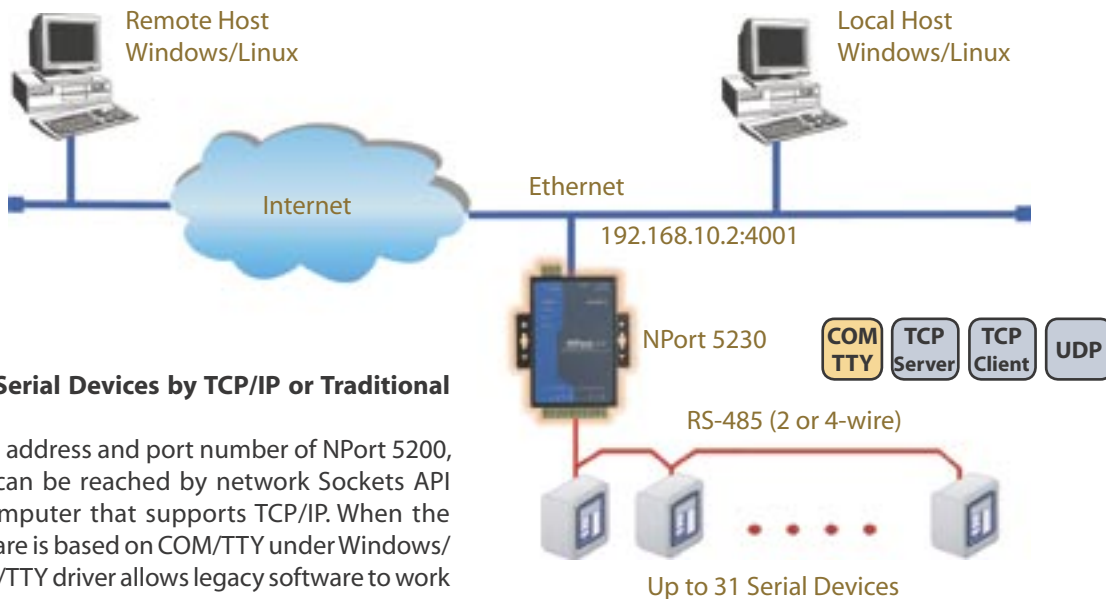
5200's Windows Utility, your installation job becomes more pleasant than ever, since all system parameters can be stored and copied to many other device servers.

## 2-Port Universal Serial Device Server



## Typical Applications

### COM-Driver / Network-Sockets mode



### Control Remote Serial Devices by TCP/IP or Traditional COM/TTY Port

By specifying the IP address and port number of NPort 5200, the serial device can be reached by network Sockets API from any host computer that supports TCP/IP. When the automation software is based on COM/TTY under Windows/Linux, Moxa's COM/TTY driver allows legacy software to work seamlessly over the Internet.

## NPort 5200 2-Port Universal Serial Device Servers

### Specifications

#### LAN

**Ethernet:** 10/100 Mbps, RJ45

**Protection:** Built-in 1.5 KV magnetic isolation

#### NPort 5210 Serial Interface

**RS-232 port x 2, RJ45 8-pin**

**RS-232 Signals:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

#### NPort 5230 Serial Interface

**RS-232 port x 1**

**RS-422/485 port x 1**

**RS-232 Signals:** TxD, RxD, RTS, CTS, GND

**RS-422 Signals:** Tx+, Tx-, Rx+, Rx-, GND

**RS-485 2-wire Signals:** Data+, Data-, GND

**RS-485 4-wire Signals:** Tx+, Tx-, Rx+, Rx-, GND

**Serial Line Protection:** 15 KV ESD for all signals

#### RS-485 Data Direction:

Patented Automatic Data Direction Control (ADDCTM)

#### 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, SNTF

**Utilities:** NPort Administrator for Windows 95/98/ME/NT/2000/XP

**Real COM/TTY Drivers:** Windows 95/98/ME/NT/2000/XP COM driver, Linux real TTY driver

**Configuration:** Web browser, serial/telnet console, or Windows utility

#### Power Requirements

**Power Input:** 12 to 30 VDC

#### Power Consumption:

NPort 5210: 305 mA at 12V (max.)

NPort 5230: 315 mA at 12V (max.)

#### Mechanical Specifications

**Material:** Aluminum (1 mm)

#### Gross Weight:

NPort 5210: 0.135 kg (0.30 lb)

NPort 5230: 0.140 kg (0.31 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 serial device server with 1 RS-232 port for free

All Items Include

- 1 serial device server
- Quick Installation Guide
- NPort Document and Software CD-ROM

#### Optional Accessories

**DK-35A:** DIN-Rail Mounting Kit (35 mm)

**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

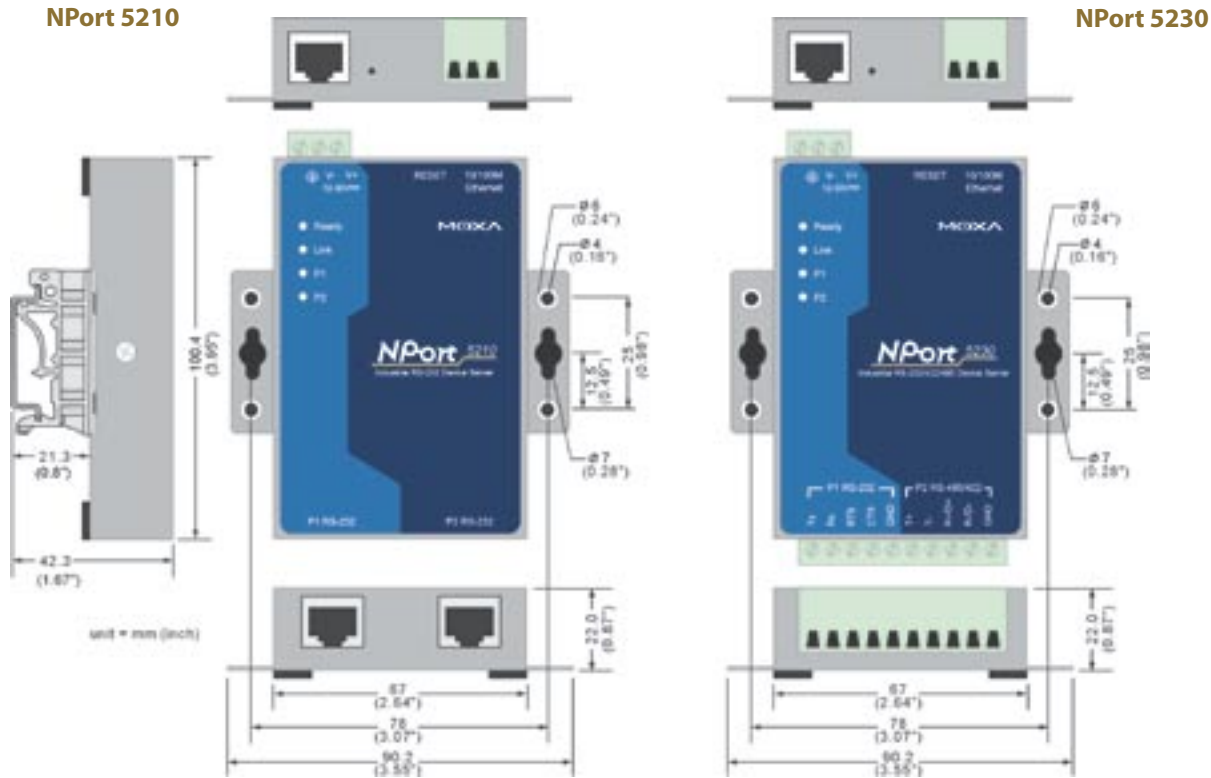
**CBL-RJ45F25-150:** RJ45 8-pin to DB25 Female cable, 150 cm

### Optional Accessories

**DK-35A:** DIN-Rail Mounting Kit (for NPort 5200 and NPort 5400)

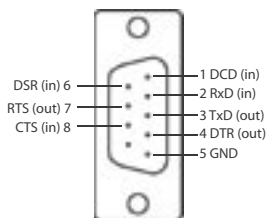


## Dimensions and Appearance

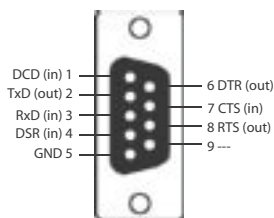


## Pin Assignment

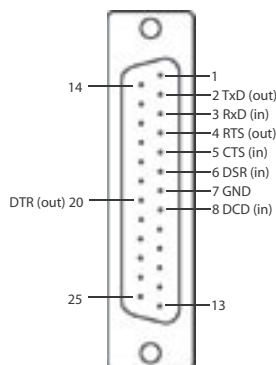
CBL-RJ45M9-150



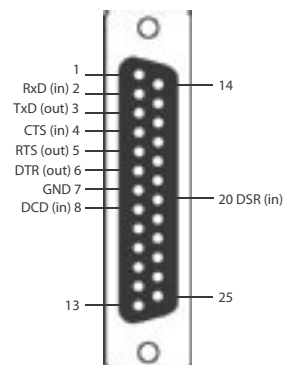
CBL-RJ45F9-150



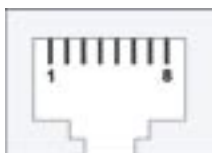
CBL-RJ45M25-150



CBL-RJ45F25-150



RJ45 RS-232 port pin assignment



Pin	RS-232
1	DSR (in)
2	RTS (out)
3	GND
4	TxD (out)
5	RxD (in)
6	DCD (in)
7	CTS (in)
8	DTR (out)