

# NPort DE-311/211

*Make Your Serial Device Internet Ready*



## Features

- RS-232/422/485 3-in-1 serial port
- Versatile socket operation modes, including TCP Server, TCP Client, UDP, Ethernet Modem, and Pair Connection
- Real COM/TTY drivers for Windows and Linux
- Fast Ethernet or Standard Ethernet
- 2- or 4-wire RS-485 with patented Automatic Data Direction Control (ADDCTM)
- Built-in 15 KV ESD Protection for all serial signals



## Ordering Information

**DE-311:** 10/100 Mbps, 1-port RS-232/422/485 serial device server

**DE-211:** 10 Mbps, 1-port RS-232/422/485 serial device server, 230V, Euro plug

### All items include

- 1-port serial device server
- Quick Installation Guide

- NPort Document and Software CD-ROM

### Optional Accessories

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

**NP21101:** DB25(M) to DB9(F) RS-232 Cable, 30 cm

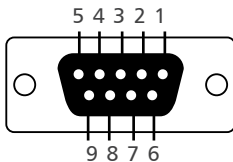
**NP21102:** DB25(M) to DB9(M) RS-232 Cable, 30 cm

**NP21103:** DB25(M) Terminal Block Kit for RS-422/485

## Pin Assignment

### DE-311

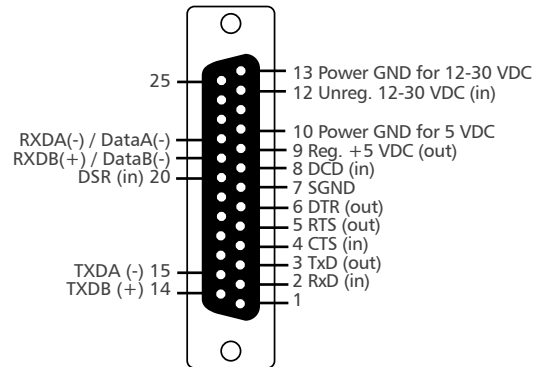
DB9 RS-232/422/485 port



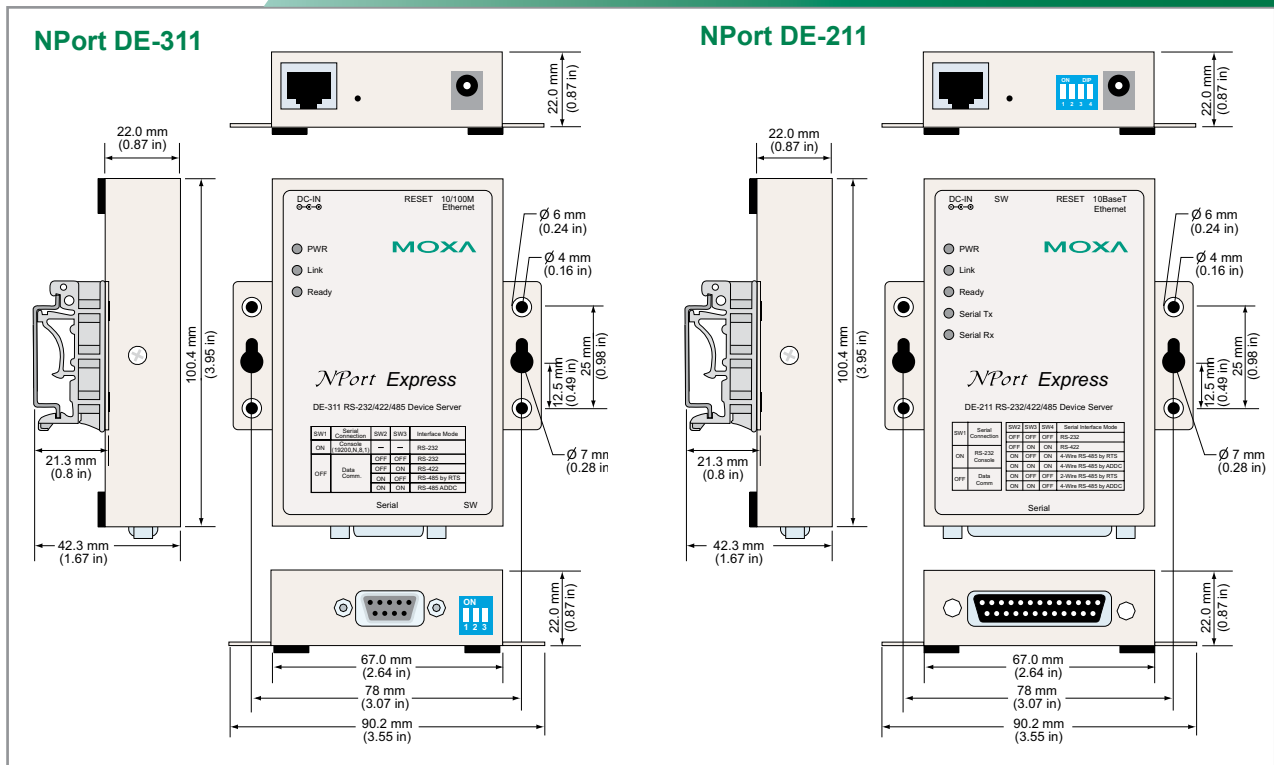
PIN	RS-232	RS-422	RS-485 (2W)
1	DCD	RxD-(A)	----
2	TxD	RxD+(B)	----
3	RxD	TxD+(B)	Data+(B)
4	DSR	TxD-(A)	Data-(A)
5	GND	GND	GND
6	DTR	CTS-(A)	----
7	CTS	CTS+(B)	----
8	RTS	RTS+(B)	----
9	----	RTS-(A)	----

### DE-211

DB25 RS-232/422/485 port



## Dimensions



## Specifications

### LAN

#### Ethernet:

DE-311: 10/100 Mbps, RJ45

DE-211: 10 Mbps, RJ45

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

### Serial

**Interface:** Switch selectable RS-232/422/485 x 1;

DE-311: Female DB9, DE-211: Female DB25

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

**RS-422 Signals:** Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, 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 (ADDC™)

### 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, XON/XOFF

**Speed:** 50 bps to 230.4 Kbps

### Software Features

**Protocols:** DHCP, BootP, Telnet, TCP, UDP, IP, ICMP, ARP

**Utilities:** NPort Management Suite for Windows 95/98/ME/NT/2000/XP/2003

**OS Driver Support:** Windows 95/98/ME/NT/2000/XP/2003/XP x64/2003 x64 COM driver, Linux real TTY driver, SCO Unix, SCO OpenServer 5, UnixWare 7, UnixWare 2.1.x, SVR4.2

**Configuration:** Serial console via RS-232, Telnet console/NPort utilities via Ethernet

### Power Requirements

#### Power Input:

DE-311: 9-30 VDC

DE-211: 12-30 VDC

#### Power Consumption:

DE-311: 300 mA at 9V (max.)

DE-211: 150 mA at 12V (max.)

### Mechanical Specifications

**Material:** SECC sheet metal (1 mm)

**Gross Weight:** DE-311: 0.88 kg (1.94 lb)

DE-211: 0.86 kg (1.89 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), 95% RH

### Regulatory Approvals

#### EMC:

CE: EN55022/EN55024 Class B

FCC: FCC Part 15 Subpart B

#### Safety:

UL: UL60950

TÜV: EN60950

**Medical:** EN 60601-1-2 Class B, EN55011 (DE-311)

**Warranty:** 5 years