

# NPort DE-311 and DE-211

Make Your Serial Device Internet Ready



## Features

- > 3-in-1 serial port with selectable RS-232, RS-422, and RS-485 operation
- > Versatile operation modes including TCP Server, TCP Client, UDP, Ethernet Modem, and Pair Connection
- > Real COM/TTY drivers for Windows and Linux
- > Fast and standard Ethernet support
- > 2 or 4-wire RS-485 with patented Automatic Data Direction Control (ADDCC™)
- > 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

## Package Checklist

- 1 Device Server
- Quick Installation Guide
- NPort Document and Software CD-ROM

## Optional Accessories

### DK-35A

NP21101: DB25 (Male) to DB9 (Female) RS-232 Cable, 30 cm

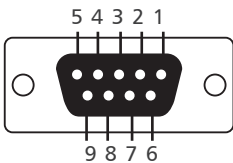
NP21102: DB25 (Male) to DB9 (Male) RS-232 Cable, 30 cm

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

## Pin Assignment

### DE-311

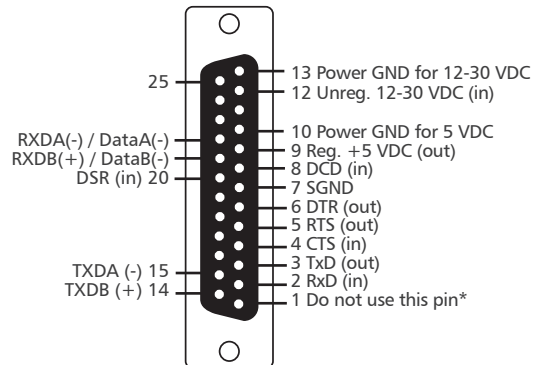
DB9 RS-232/422/485 Port



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

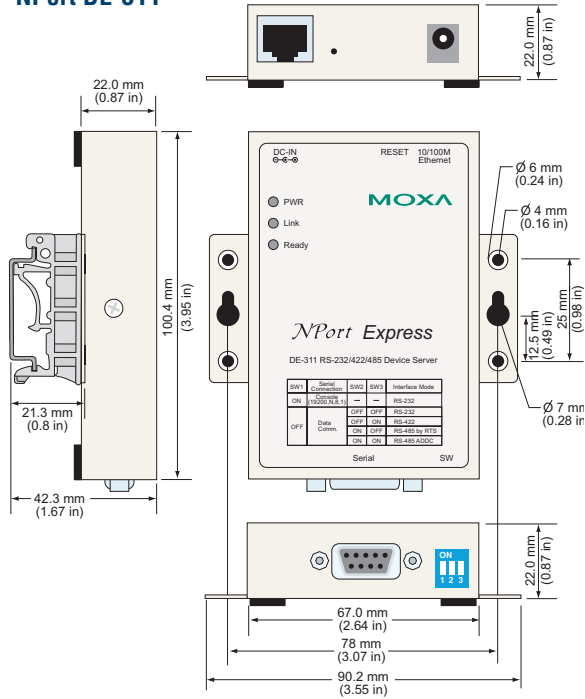
DB25 RS-232/422/485 Port



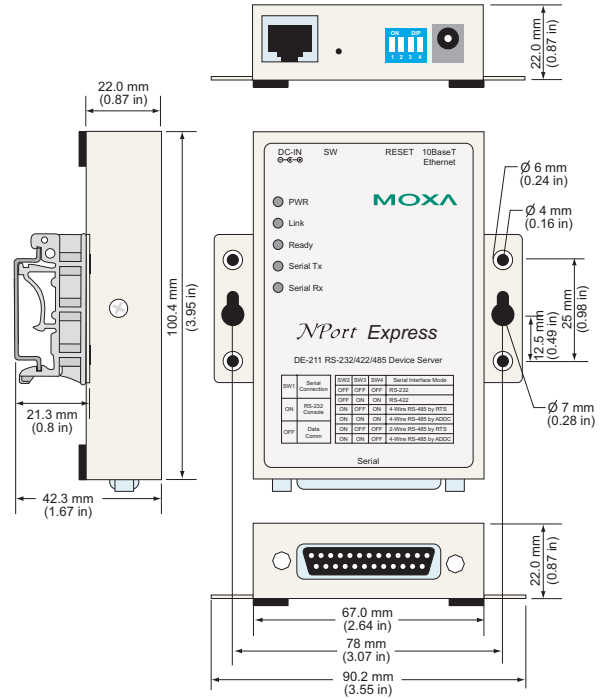
\* This pin is reserved for debugging only. Connecting this pin may cause irreparable damage to your device.

## Dimensions (unit = mm)

### NPort DE-311



### NPort DE-211



## Specifications

### LAN

#### Ethernet:

DE-311: 10/100 Mbps, RJ45

DE-211: 10 Mbps, RJ45

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

### Serial

**Interface:** 1 RS-232/422/485 port

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

**RS-232 Signals:** Tx+, Rx+, 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(s):** 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, QNX

**Configuration:** Telnet console, serial console, Windows utility

### Power Requirements

#### Power Input:

DE-311: 9 to 30 VDC

DE-211: 12 to 30 VDC

#### Power Consumption:

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

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

### Mechanical Specifications

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

**Gross Weight:** DE-311: 720 g

DE-211: 720 g

### Environment

**Operating Temperature:** 0 to 70°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

### MTBF

DE-311: 225529 hours

DE-211: 347822 hours