

Single Port Serial Device Servers



NPort Express

DE-211 Universal Serial Device Server for Industrial Devices

Overview

NPort Express DE-211 is a universal serial device server that can network-enable your industrial serial devices, such as information display boards, PLCs, flow meters, gas meters, CNC machines, and biometric identification card readers.

Seamless integration with your industrial serial devices and Ethernet TCP/IP network

DE-211 supports RS-232/422 and 4-wire/2-wire RS-485, and has a built-in terminator, making it fit for all types of industrial serial devices and serial communications topologies. The optional Power over Serial function allows DE-211 to be powered by DC power pins inside the DB25 serial cable that connects to the serial device, allowing DE-211 to be seamlessly integrated with connected serial devices.

Total software solution for Serial to Ethernet applications

With the help of Windows Native COM driver technology, you can keep running existing COM-based software, such as HyperTerminal, without changing your software under Windows operating systems. Real tty driver for Linux is also supported. In addition, DE-211 provides versatile Raw Connection Modes for sockets, such as TCP Server, TCP Client, UDP Server/Client, Pair Connection, and Ethernet Modem, making DE-211 a powerful and flexible tool for completing your important projects.

Easy installation and administration with NPort Configurator

DE-211 NPort Configurator provides easy IP configuration, including DHCP, MAC-IP mapping, and comes with enhanced easy configuration management and fast deployment capabilities. Friendly Graphic User Interface management utilities for Windows and user-configurable command mode are both supplied.

Features

- 3-in-1 RS-232/422/485 interface and 10 Mbps Ethernet
- Supports 4 and 2 wire RS-485 with patented ADDC™ and built-in terminator
- Supports industrial 12/24 VDC power input and optional Power over Serial
- Terminal block accessories for easy RS-422/485 serial wiring
- Supports MAC based IP configuration
- Supports configuration store and copy for easy deployment
- Supports Windows Native COM driver and Linux real TTY driver
- Supports Driver Mode, TCP Server/Client, UDP Server/Client, Ethernet Modem, Pair Connection

Benefits

- Network-enable your industrial serial devices instantly
- Easy IP setup and deployment for mass installation
- Easy configuration management for local site and remote management
- Easy integration with industrial serial devices, with versatile software, power, and housing solution
- Easy troubleshooting with monitoring software and LED signals for RS-485 communication



Terminal Block Accessories

Applications

- Information display board management for hotels and airports
- PLC control and administration
- Industrial SCADA, measurement, and monitoring systems
- CNC machine management
- Medical/Hospital/Healthcare industry
- Factory Automation
- Building Automation
- Security/Entrance control systems
- Time/Attendance control systems
- and more...



DIN Rail mountable

Specifications

Hardware

Processor	16 bit CPU
Memory	512 KB
Connector	Female DB25

Interface

LAN	10BaseT
Serial	RS-232/422/485 (DIP switch selectable)
No. of serial ports	1
Signals	RS-232: TxD, RxD, RTS, CTS DTR, DSR, DCD, GND RS-422: TxD+/-, RxD+/-, GND RS-485 2 wire: Data+/-, GND RS-485 4 wire: TxD+/-, RxD+/-, GND

Performance

Speed	50 bps – 230.4K bps
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Configuration

Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2

OS Supported

DE-211	Windows XP, Windows 2000, Windows NT, Windows 95/98/ME Native COM driver, Linux real tty driver
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Protocols

TCP, IP, UDP, Telnet, RTelnet, DHCP, ICMP

Operation Modes

Driver Mode, TCP Server, TCP Client, UDP Server/Client, Ethernet Modem, Pair Connection

Management

DE-211	Serial console Telnet console NPort Configurator for Windows/Linux NPort Manager for COM driver, Monitor Firmware upgrade for Windows NPort Admin for Linux tty driver
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Power and Environment

Power requirements	DC 12V to 30V, 150mA (max.) at 12V 92mA(max.) at 24V 260mA(max.) at 5V (Power over Serial enabled)
Operating temp.	0 - 55°C
Operating Humidity	5 - 95%RH
Storage Temp.	-20 - 85°C
Dimensions	90 x 100.4 x 22 mm (W x D x H, including ears) 67 x 100.4 x 22 mm (W x D x H)
Surge protection	15 KV ESD for serial port
Magnetic isolation	1.5 KV for Ethernet
Regulatory approvals	FCC B, CE B, UL, CUL, TUV

Ordering Information

DE-211/110V	1 port RS-232/422/485 universal serial device server
DE-211/230V	1 port RS-232/422/485 universal serial device server
All items include	<ul style="list-style-type: none">• Windows XP, Windows 2000, Windows NT, Windows 95/98/ME Native COM driver, Linux real tty driver• NPort Configurator utility• Power Adapter• User's Manual, software CD-ROM

Optional Accessories

NP21101	30cm DB25 male to DB9 female RS-232 cable
NP21102	30cm DB25 male to DB9 male RS-232 Cable
NP21103	DB25 terminal block kit for RS-422/485
DIN Rail mounting kit	For 35mm DIN Rail with screws x 4