

# Universal Single-Port Serial Device Server

for Industrial Devices

Model: DE-211

Model 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 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

## **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

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## Specifications

### Hardware

Processor: 16 bit CPU  
Memory: 512 KB  
Connector: DB25 female

### Interface

LAN: 10BaseT\_  
Serial: RS-232/422/485 (DIP switch selectable)  
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

Speed: 50 bps – 230.4K bps  
Parity: None, even, odd, space, mark  
Data bits: 5, 6, 7, 8  
Stop bits: 1, 1.5, 2  
O/S: Windows XP, Windows 2000, Windows NT, Windows 95/98/ME Native COM driver, Linux real tty driver  
Protocols: TCP, IP, UDP, Telnet, Rtelnet, DHCP, ICMP  
Operation Modes: Driver Mode, TCP Server, TCP Client, UDP Server/Client, Ethernet Modem, Pair Connection

### Management

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

### 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 Temperature: 0 to 55 °C  
Operating Humidity: 5 to 95%RH  
Storage Temperature: -20 to 85 °C  
Dimensions: 3.5W x 3.9D x .87H (90 x 100.4 x 22 mm), including ears  
2.6W x 3.9D x .87H (67 x 100.4 x 22 mm)  
Surge Protection: 15 KV ESD for serial port  
Magnetic Isolation: 1.5 KV for Ethernet  
Regulatory Approvals: FCC B, CE B, UL, CUL, TUV

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