



NPORT 5630-16 shown

**Models: NPORT 5630-8, NPORT 5630-16**

## **Serial Device Server**

**World's Leading LCM Display  
Rackmount Serial Device Server**

### **Overview**

#### **Make up to 16 RS-422/485 Serial Devices Internet Ready**

The NPort 5630 series provides a convenient and transparent way for Ethernet connection. It not only protects your current hardware investment, but also ensures future network expandability. Perform some simple configuration tasks, and you'll be ready to network your existing serial devices. Moreover, NPort 5630 can transparently transmit data bi-directionally between the serial and Ethernet interfaces. By using NPort 5630, you can centralize serial device management and distribute the management hosts at the same time.

#### **19-in Rackmount Device Server**

NPort 5630 has a professional cabinet design, with Tx/Rx LEDs for all ports on the front panel and the 8/16 RS-422/485 RJ45 connectors on the rear panel. This makes it suitable for standard 19-inch rack mounting, simplifying operation, maintenance, and administration.

#### **Real COM/TTY Port**

After installing the real COM/tty driver (included), the serial ports on NPort 5630 are recognized as real COM ports by the Windows operating system, or real TTY ports by Linux environments. NPort 5630 provides both the basic transmit/receive data functions, as well as RTS, CTS, DTR, DSR, and DCD control signals.

#### **Useful LED Indicators**

The System LED, Serial Tx/Rx LEDs, and Ethernet LED on the connector help field engineers analyze field problems and provide a simple way to ease monitoring tasks. LEDs not only indicate current system and network status, but also assist the field engineer in monitoring the status of attached serial devices.

### **Features**

- Easy-to-use LCM (Liquid Crystal Module) interface for setting up IP address
- Standard 19-inch rack-mountable
- Auto-detecting 10/100 Mbps Ethernet
- 16/8 RS-422/485 ports
- Surge protection for all serial signals (15 KV ESD)
- Supports TCP Server, TCP Client, UDP, and Real COM Modes
- Supports web and telnet consoles
- Supports SNMP MIB-II for network management

### **Typical Applications**

#### **NPort 5630 can be shared by several different host computers**

Different host computers can share the same NPort 5630 to control different devices. For example, ports 1, 2, and 3 can be configured to Host A's COM3, COM4, and COM5, and ports 14, 15, and 16 can be configured to Host B's COM3, COM4, and COM5. By using NPort 5630, you can simultaneously centralize serial device management and distribute the management hosts over the network.

International Headquarters:

**B&B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B&B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
+353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)

## Specifications

### LAN

Ethernet 10/100 Mbps, RJ45 x 1  
Protection Built-in 1.5 KV magnetic isolation

### Serial

Interface RS-422/485, RJ45 8-pin  
Signals RS-422- Tx+, Tx-, Rx+, Rx-, GND  
RS-485 (2-wire)- Data+, Data-, GND  
RS-485 (4-wire)- Tx+, Tx-, Rx+, Rx-, GND  
Serial line protection 15 KV ESD for all signals  
RS-485 data direction ADDC™ (Automatic Data Direction Control)  
Power line protection 4 KV Burst (EFT), EN61000-4-4  
2 KV Surge, EN61000-4-5

### Built-in Features

HMI  
LCM display with four push buttons  
Buzzer  
Real time clock  
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, XON/XOFF DTR/DSR  
Speed 50 bps to 230.4 Kbps

### Software Features

Protocols ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP, SNTP  
Utilities NPort Administrator for Windows 95/98/ME/NT/2000/XP  
Real COM/TTY drivers Windows 95/98/ME/NT/2000/XP Real COM drivers,  
Linux real tty driver (available November, 2003)  
Configuration Web browser, telnet console, or Windows utility

### Power Requirements

Power input 100 to 240 VAC, 47 to 63 Hz, or 48 VDC  
Power consumption 5630-8: 215 mA (at 48V max.)  
5630-16:212 mA for 100V, 130 mA for 240V

### Mechanical Specifications

Material SECC sheet metal (1 mm)

### 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, TUV

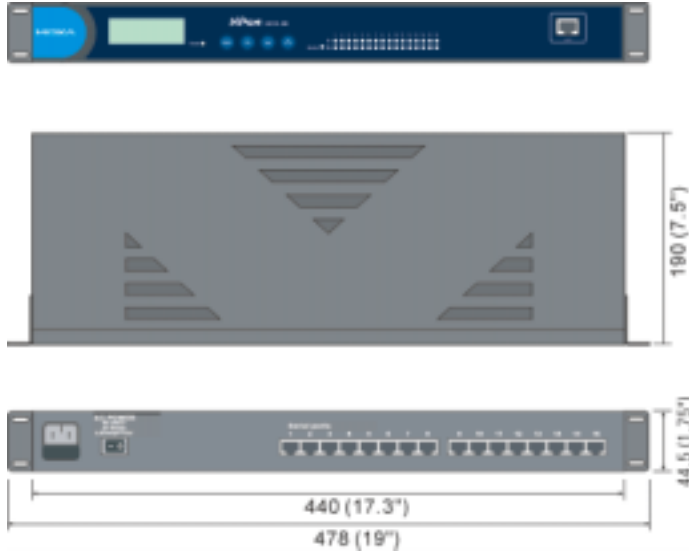
International Headquarters:

**B&B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B&B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
+353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)

**Dimensions**

Unit: mm (inch)



**Optional Accessories**

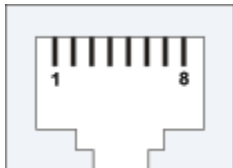
CBL-RJ45M9-150	CBL-RJ45F9-150
CBL-RJ45M25-150	CBL-RJ45F25-150

International Headquarters:

**B&B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
 815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B&B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
 +353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)

**8-pin RJ45-pin Assignment**



NPort 5630		
Pin	RS-422/ 4-wire RS-485	2-wire RS-485
1	---	---
2	---	---
3	TxD+	---
4	TxD-	---
5	RxD-	Data-
6	RxD+	Data+
7	GND	GND
8	---	---

**Ordering Information**

**Model:**

**Description:**

NPORT 5630-16.....16-Port RS-422/485 Serial Device Server, 100-240 VAC power input

NPORT 5630-8.....8-Port RS-422/485 Serial Device Server, 100-240 VAC power input

\*Above items include.....Serial Device Server  
 Quick Installation Guide  
 NPort Document and Software CD-ROM  
 Power Cord

International Headquarters:

**B&B Electronics Mfg. Co.** 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA  
 815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

**B&B Electronics Ltd** Westlink Commercial Park Oranmore Co. Galway Ireland  
 +353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-europe.com](mailto:support@bb-europe.com)