

NPort W2004

4-port Wireless Device Servers



Features

- Link any serial device to an IEEE802.11b/g network
- Four RS-232/422/485 ports, at up to 460.8 Kbps
- Web-based configuration using built-in Ethernet or WLAN
- Using Windows/Linux COM drivers
- TCP Server, TCP Client, and UDP modes
- Enhanced remote configuration with HTTPS, SSH



: 802.11b/g Wireless Connectivity to Serial Devices

For difficult wiring situations, wireless device servers are an ideal way to reduce the number of cables. In Infrastructure Mode or Ad-Hoc Mode, the NPort W2004 can communicate with an access point or

another NPort W2004 located up to 300 meters away.

: Works with Existing Software, Saving Time and Money

The NPort W2004 comes with field-proven Real COM/TTY drivers for Windows and Linux systems, ensuring that existing PC software will still work with the new Wireless LAN infrastructure. TCP Server, TCP

Client, and UDP modes are also provided so IP-based software can use the IP address and TCP port number to access each device directly.

: Secure Remote Management and Configuration with SSH/SSL

Unauthorized access is one of the biggest headaches for system managers. In addition to WEP protection, IP filtering, and password protection, the NPort W2004 also supports SSH and SSL for protection against from hackers. You can open the web console

securely by using a web browser that supports https, such as Internet Explorer. You can open the serial or Telnet console securely by using a terminal emulator that supports SSH, such as PuTTY.

: Ordering Information

NPort W2004 4-port RS-232/422/485 wireless device server with 802.11b/g, antenna

Package Checklist

- NPort W2004 x 1
- RJ45 to RJ45 cross-over Ethernet cable
- RJ45 to DB9 (male) cable
- Power adaptor
- Quick Installation Guide
- Document and Software CD

Optional Accessories

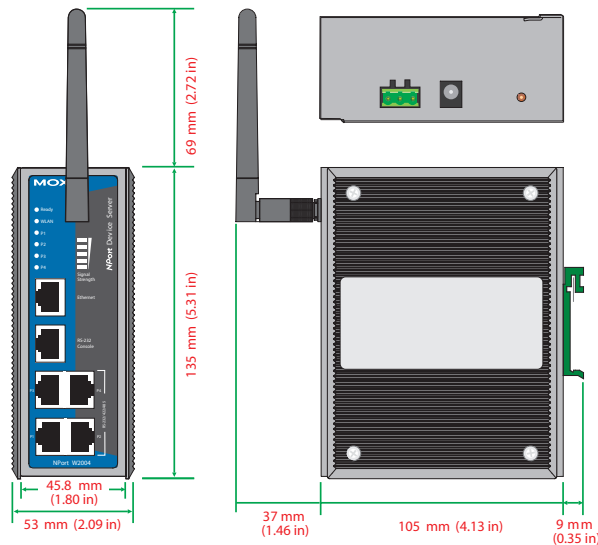
Power adaptor: See page 12-8

Serial cable & serial adaptor: See page 12-4

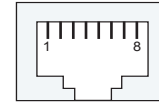
DK-35A: DIN-Rail Mounting Kit (35 mm)

External antenna: See page 12-10

Dimensions (unit = mm)



RJ45 RS-232/422/485 port



Pin	RS-232	RS-422, RS-485 (4-Wire)	RS-485 (2-Wire)
1	DSR	–	–
2	RTS	TxD+	–
3	GND	GND	GND
4	TxD	TxD-	–
5	RxD	RxD+	Data+
6	DCD	RxD-	Data-
7	CTS	–	–
8	DTR	–	–

Specifications

WLAN

Standard Compliance: IEEE802.11b/g

Spread Spectrum Technology: DSSS, OFDM

Tx Power 11b: Maximum 20 dBm

Tx Power 11g: Maximum 18 dBm

Rx Sensitivity: -70 dBm @ 54 Mbps, -85 dBm @ 11 Mbps

Transmission Rate: 54 Mbps (max.) with auto fallback
(54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps)

Transmission Distance: Up to 300 meters (@12 Mbps, in open areas)

Security: WEP 64-bit/128-bit data encryption

Antenna Connector: Reverse SMA

Network Modes: Infrastructure, Ad-Hoc

LAN

Ethernet: 10/100 Mbps, RJ45, Auto MDI/MDIX

Protection: Built-in 1.5 KV magnetic isolation

Serial

No. of Ports: 4

Interface: RS-232/422/485, 8-pin RJ45 with 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 Bits: 1, 1.5, 2

Flow Control: RTS/CTS, XON/XOFF

Speed: 50 bps to 460.8 Kbps

Console Ports: Ethernet x 1, RS-232 console x 1

Software Features

Protocols: ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, SMTP, SNT, SSH, HTTPS

Utilities: NPort Search Utility & NPort Windows Driver manager for Windows 95/98/ME/NT/2000/XP/2003

OS Driver Support:

Windows 95/ 98/ ME/ NT/ 2000/ XP/ 2003/ XP x 64/2003x64 COM driver, Linux real TTY driver, SCO Unix, SCO OpenServer 5, UnixWare 7, UnixWare 2.1.x, SVR4.2, QNX

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

Power Requirements

Power Input: 12 to 48 VDC

Power Consumption: 685 mA @ 12V, 184 mA @ 48V, 340 mA @ 24V

Mechanical Specifications

Material: SECC sheet metal (1 mm)

Gross Weight: 1880 g

Dimensions

Body: 53 x 135 x 105 mm (without DIN-rail kit or antenna)

DIN-Rail Kit: 9 mm

Antenna: 69 mm

Environment

Operating Temperature: 0 to 60°C (32 to 140°F), 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F), 5 to 95% RH

Regulatory Approvals

EMC

CE: EN55022 Class A/EN55024, ETSI EN 301 489-17, ETSI EN 301 489-1

FCC: FCC Part 17 Subpart B, Class A
FCC Part 15 Subpart C

Safety

UL: UL60950-1, TÜV: EN60950-1

Warranty: 5 years

MTBF: 81501