

NPort® W2004

4-port RS-232/422/485 IEEE 802.11b/g wireless device server



- > Link any serial device to an IEEE 802.11b/g network
- > 460.8 Kbps baudrate for RS-232/422/485 transmissions
- > Web-based configuration using built-in Ethernet or WLAN
- > Windows real COM and Linux real TTY drivers provided
- > Real COM, TCP Server, TCP Client, and UDP modes
- > Enhanced remote configuration with HTTPS, SSH



: 802.11b/g Wireless Connectivity to Serial Devices

The NPort® W2004 wireless device server provides a convenient means of reducing the number of cables for hard-to-wire applications. Both Infrastructure and Ad-Hoc modes are supported, and the NPort®

W2004 can connect to access points or another NPort® W2004 located up to 300 meters away.

: Works with Existing Software, Saving Time and Money

Field-proven Windows real COM and Linux real TTY drivers are provided for the NPort® W2004, ensuring that existing PC software will work with your wireless LAN infrastructure. In addition, the

NPort® W2004 supports TCP Server, TCP Client, and UDP operation modes that allow IP-based software to use the IP address and TCP port number to access devices directly.

: Secure Remote Management and Configuration with SSH/SSL

The NPort® W2004 supports several functions to help prevent unauthorized access to your wireless LAN. In addition to WEP protection, IP filtering, and password protection, the NPort® W2004 also supports SSH and SSL to thwart hacker attacks. Using web

browsers that support https (Internet Explorer, for example) provides secure access by browser to your wireless LAN. In addition, using terminal emulators that support SSH (PuTTY, for example) provides secure Telnet access.

: Specifications

Ethernet Interface

Number of Ports: 1
Speed: 10/100 Mbps, auto MDI/MDIX
Connector: RJ45
Magnetic Isolation Protection: 1.5 KV built-in

WLAN Interface

Standard Compliance: 802.11b/g
Network Modes: Infrastructure, Ad-Hoc
TX Transmit Power:
 802.11b: 20 dBm maximum
 802.11g: 18 dBm maximum
RX Sensitivity: -80 dBm
Radio Frequency Type: DSSS/OFDM
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 (at 12 Mbps in open areas)

Wireless Security: WEP: 64/128-bit data encryption
Antenna Connector: Reverse SMA

Serial Interface

Number of Ports: 4
Serial Standards: RS-232/422/485 (RJ45 connector)
Console Port: RS-232 console port on the front panel

Serial Communication Parameters

Data Bits: 5, 6, 7, 8
Stop Bits: 1, 1.5, 2
Parity: None, Even, Odd, Space, Mark
Flow Control: RTS/CTS, XON/XOFF, DTR/DSR
Baudrate: 50 bps to 460.8 Kbps
Serial Data Log: 64 KB
Serial Signals
RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485-4w: TxD+, TxD-, RxD+, RxD-, GND
RS-485-2w: Data+, Data-, GND

Software

Network Protocols: ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, SNMP V1/V2c, HTTP, SMTP, Sntp, SSH, HTTPS
Configuration Options: Web Console, Serial Console, Telnet Console, Windows Utility
Secure Configuration Options: HTTPS, SSH
Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/ 7 x86/x64, Embedded CE 5.0/6.0, XP Embedded

Fixed TTY Drivers: SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i

Linux Real TTY Drivers: 2.4.x/2.6.x

Utilities: NPort® Search Utility and NPort® Windows Driver manager

Physical Characteristics

Housing: SECC sheet metal (1 mm), providing IP30 protection

Weight: 1730 g

Dimensions:

Without antenna: 45.8 x 135 x 105 mm (1.80 x 5.31 x 4.13 in)

With antenna: 45.8 x 204 x 142 mm (3.94 x 8.03 x 5.59 in)

Environmental Limits

Operating Temperature: 0 to 60°C (32 to 140°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F)

Power Requirements

Input Voltage: 12 to 48 VDC

Power Consumption: 685 mA @ 12 V, 340 mA @ 24 V, 185 mA @ 48 V

Regulatory Approvals

EMC: CE (EN55022 and EN55024 Class A, ETSI EN 301 489-17, ETSI EN 301 489-1)

Safety: UL (UL60950-1), TÜV (EN60950-1)

EMI: FCC (Part 15 Subpart B Class A, Subpart C)

Radio: CE (ETSI EN 300 328)

Reliability

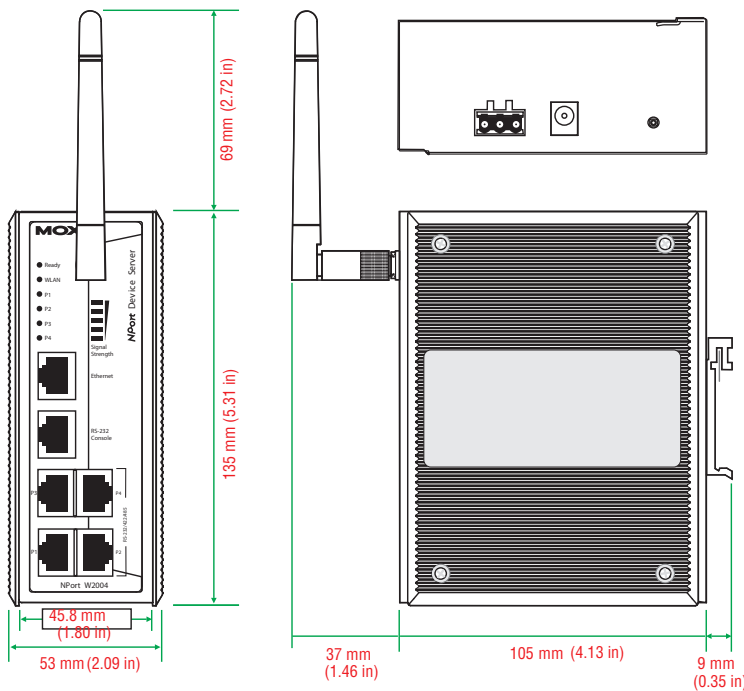
MTBF (mean time between failures): 81501 hrs

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions



RJ45 RS-232/422/485 port

PIN	RS-232	RS-422/485-4w	RS-485-2w
1	DSR	–	–
2	RTS	TxD+	–
3	GND	GND	GND
4	TxD	TxD-	–
5	RxD	RxD+	Data+
6	DCD	RxD-	Data-
7	CTS	–	–
8	DTR	–	–

Ordering Information

Available Models

NPort® W2004-US: 4-port RS-232/422/485 wireless device server with 802.11b/g WLAN, antenna, US band, US plug

NPort® W2004-EU: 4-port RS-232/422/485 wireless device server with 802.11b/g WLAN, antenna, Euro band, Euro plug

NPort® W2004-CN: 4-port RS-232/422/485 wireless device server with 802.11b/g WLAN, antenna, Euro band, US plug, CCC

NPort® W2004-UK: 4-port RS-232/422/485 wireless device server with 802.11b/g WLAN, antenna, Euro band, UK plug

NPort® W2004-SAA: 4-port RS-232/422/485 wireless device server with 802.11b/g WLAN, antenna, Euro band, Australia plug

Optional Accessories (can be purchased separately)

Serial Cables and Adaptors: See page A-6 for details

Package Checklist

- NPort® W2004 wireless device server
- Ethernet cable: RJ45 to RJ45 cross-over cable, 100 cm
- CBL-RJ45M9-150: RJ45 (8 pins) to DB9 male serial port cable, 150 cm
- Power adaptor
- Antenna
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card