

# NPort W2250/2150

## 2/1-Port Wireless Serial Device Servers

### Features

- Link any serial device to an IEEE 802.11b network
- 2 or 1 RS-232/422/485 ports, at up to 230.4 Kbps
- Web-based configuration via built-in Ethernet or WLAN
- Supports Windows/Linux COM driver
- Supports TCP Client mode, TCP Server mode, and UDP mode
- Compact sized, robust metal case fits all applications



### Overview

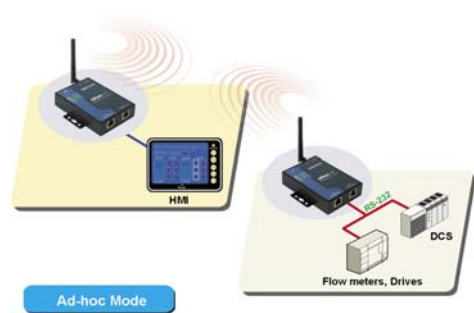
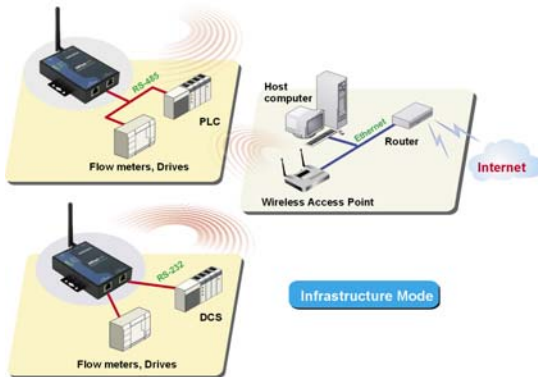
The NPort W2250/2150 Wireless Serial Device Server extends wireless networking capabilities to printers, scales, medical equipment, manufacturing machinery, bar code readers, card readers, point-of-sale equipment, and other data collection

devices. NPort W2250/2150's RS-232/422/485 3-in-1 serial interface is suitable for use with most serial devices. Link up to 2 serial devices to your wireless network via one NPort Server IP address.

### 802.11b Wireless Connectivity to Serial Devices

For hard-to-wire situations, a wireless Serial Device Server is the ideal solution to reduce the number of connection cables. When using Infrastructure Mode or Ad-Hoc Mode, NPort

W2250/2150 can communicate with any host computer via an access point or another NPort W2250/2150 located up to 100 meters away in an open area.



### Works with Existing Software, Saving you Time and Money

NPort W2250/2150 supports field proven Real COM/TTY drivers for Windows and Linux systems, ensuring that existing PC software will still work when used with the new Wireless LAN infrastructure.

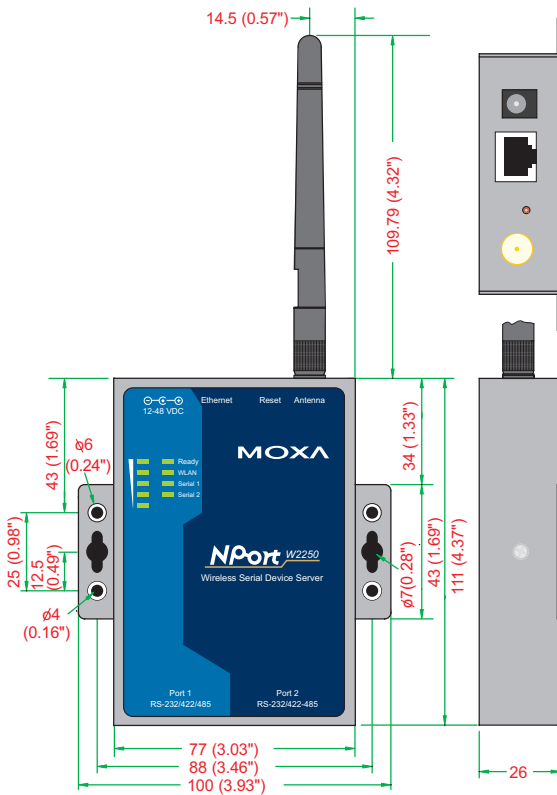
TCP Server, TCP Client, and UDP modes are also supported so that IP-based software (e.g., Telnet) can directly access each device by knowing the IP address and TCP port number.

### Easy-to-use Remote Management and Configuration Tools

NPort W2250/2150 comes with a Windows utility that automatically searches for and locates the Wireless Serial Device Server over an Ethernet network. An easy-to-use Wizard (via the

web console) guides you through the entire installation in just a few minutes.

## Dimensions



## Specifications

### WLAN

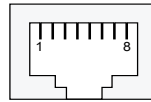
**Standard Compliance:** IEEE 802.11b  
**Spread Spectrum Technology:** DSSS  
**Tx Power:** 15 dBm ± 2 (CH1-Ch13), 12dBm ± 2 (CH14)  
**Rx Sensitivity:** -84 dBm @ 11 Mbps, -87 dBm @ 5.5 Mbps, -89 dBm @ 2 Mbps, -91 dBm @ 1 Mbps  
**Transmission Rate:** 11 Mbps (max.) with auto fallback (11, 5.5, 2, 1 Mbps)  
**Transmission distance:** Up to 100 meters (@11 Mbps, in open areas)  
**Security:** WEP 64-bit/128-bit data encryption  
**Antenna Connector:** Reverse SMA  
**Network Mode:** Infrastructure mode, Ad-Hoc mode  
**LAN**  
**Ethernet:** 10/100 Mbps, RJ45

## Ordering Information

**NPort W2250-US:** 2-port RS-232/422/485 Device Server with 802.11b WLAN, antenna, US band, 110 VAC, US plug  
**NPort W2250-EU:** 2-port RS-232/422/485 Device Server with 802.11b WLAN, antenna, Euro band, 240 VAC, Euro plug  
**NPort W2150-US:** 1-port RS-232/422/485 Device Server with 802.11b WLAN, antenna, US band, 110 VAC, US plug  
**NPort W2150-EU:** 1-port RS-232/422/485 Device Server with 802.11b WLAN, antenna, Euro band, 240 VAC, Euro plug

\* Japan band available (W2250-JP, W2150-JP)  
 \* China, Uk package available

## Pin Assignment



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

**Protection:** Built-in 1.5 KV magnetic isolation

### Serial

**No. of ports:** 2 ports (NPort W2250), 1 port (NPort W2150)

**Interface:** RS-232/422/485, 8-pin RJ45

### 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:** 110 bps to 230.4 Kbps

### Console Ports

Ethernet x 1, RS-232 console x 1 (Port 1)

### Software Features

**Protocols:** ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP

**Utilities:** Windows utility for Windows 98/ME/2000/XP/2003

**Configuration:** Web browser, serial/telnet console, or Windows utility

### Power Requirements

**Power input:** 12-48 VDC

**Power consumption:** 250 mA @ 12V, 138 mA @ 24V

### Mechanical Specifications

**Material:** Aluminum sheet metal (1 mm)

### Dimensions:

**Body:** 77 x 111 x 26 mm (without ears or antenna)

**Body:** 100 x 111 x 26 mm (without antenna)

**Antenna:** 109 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, TÜV

### All items include

- NPort W2250 or W2150 x 1
- RJ45 to RJ45 Ethernet cross-over cable
- RJ45 to male DB9 cable
- Power adaptor, Warranty booklet
- CD-ROM, Quick Installation Guide

### Optional Accessories

**DK-35A:** DIN-Rail kit

**RJ45 to male DB9 cable:** 150 cm

**RJ45 to female DB9 cable:** 150 cm