NPort W2150A/W2250A Series

1 and 2-port serial-to-WiFi (802.11a/b/g/n) device servers with wireless client



Features and Benefits

- Links serial and Ethernet devices to an IEEE 802.11a/b/g/n network
- Web-based configuration using built-in Ethernet or WLAN
- Enhanced surge protection for serial, LAN, and power
- Remote configuration with HTTPS, SSH
- Secure data access with WEP, WPA, WPA2
- · Fast roaming for quick automatic switching between access points
- Offline port buffering and serial data log
- Dual power inputs (1 screw-type power jack, 1 terminal block)

Certifications

CE F©

Introduction

The NPort® W2150A and W2250A are the ideal choice for connecting your serial and Ethernet devices, such as PLCs, meters, and sensors, to a wireless LAN. Your communications software will be able to access the serial devices from anywhere over a wireless LAN. Moreover, the wireless device servers require fewer cables and are ideal for applications that involve difficult wiring situations. In Infrastructure Mode or Ad-Hoc Mode, the NPort® W2150A and NPort® W2250A can connect to Wi-Fi networks at offices and factories to allow users to move, or roam, between several APs (access points), and offer an excellent solution for devices that are frequently moved from place to place.

Specifications

Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1
Magnetic Isolation Protection	1.5 kV (built-in)
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)
Ethernet Software Features	
Configuration Options	Web Console (HTTP/HTTPS), Windows Utility
Management	DHCP Option 82, HTTP, IPv4, SMTP, SNMPv1/v2c/v3, Syslog, Telnet, Web Console
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Real TTY Drivers	Kernel version: 2.4.x, 2.6.x, 3.x, 4.x
Fixed TTY Drivers	SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5. x, HP-UX 11i, Mac OS X
Android API	Android 3.1.x and later
МІВ	Device Settings MIB, RFC1213, RFC1317



Inve ManagementNTP Clent, SNTP ClentWLAN IntorfaceWLAN Standards02.11a/s/g/nReceiver Sensitivity for 802.11a-9.1 dBm 6 6 MbpsReceiver Sensitivity for 802.11a-9.1 dBm 6 8 MbpsReceiver Sensitivity for 802.11a-9.1 dBm 6 8 MbpsReceiver Sensitivity for 802.11a-9.0 dBm 6 5 Mbps (20 MHz)Receiver Sensitivity for 802.11n (2.4 OHz)-9.0 dBm 6 6.5 Mbps (20 MHz)Receiver Sensitivity for 802.11n (2.4 OHz)-9.0 dBm 6 6.5 Mbps (20 MHz)Receiver Sensitivity for 802.11n (2.4 OHz)-9.0 dBm 6 6.5 Mbps (20 MHz)Adduation Type-9.0 dBm 6 6.5 Mbps (20 MHz)Receiver Sensitivity for 802.11n (5 GHz)-9.0 dBm 6 6.5 Mbps (20 MHz)Aduation Type-9.0 dBm 6 6.5 Mbps (20 MHz)Transmission BatingUp to 100 meters (in open areas)Transmission Rating-9.0 dBm 6 6.5 Mbps (20 MHz)Transmission Rating-9.0 dBm 6 1.5 Mbps (65 MHz)Transm	Security	HTTPS/SSL, Local Account Accessibility, TACACS+, SSH		
VALN Interface Vestion WLAN Standards 80211a/b/g/n Roceiver Sensitivity for 802.11a 91 dBm 86 Maps 74 dBm 85 Maps Roceiver Sensitivity for 802.11g 91 dBm 66 Maps 84 dBm 91 Maps 84 dBm 91 Maps Roceiver Sensitivity for 802.11g 91 dBm 66 Maps 73 dBm 95 Maps Roceiver Sensitivity for 802.11n (24 GHz) 99 dBm 6 6.5 Maps (20 MHz) Roceiver Sensitivity for 802.11n (24 GHz) 99 dBm 6 6.5 Maps (20 MHz) Roceiver Sensitivity for 802.11n (24 GHz) 99 dBm 6 6.5 Maps (20 MHz) Roceiver Sensitivity for 802.11n (24 GHz) 99 dBm 6 6.5 Maps (20 MHz) Roceiver Sensitivity for 802.11n (24 GHz) 99 dBm 6 6.5 Maps (20 MHz) Roceiver Sensitivity for 802.11n (24 GHz) 190 dBm 6 6.5 Maps (20 MHz) Roteiver Sensitivity for 802.11n 190 dBm 6 8.5 Maps (20 MHz) Roteiver Sensitivity for 802.11n (24 GHz) 191 dBm 6 8.4 Maps (20 MHz) Roteiver Sensitivity for 802.11n 154.5 dBm 8 1 Maps (25 MHz) Roteiver Sensitivity for 802.11n (24 GHz) 154.5 dBm 8 1 Maps (25 MHz) Roteiver Sensitivity for 802.11n (24 GHz) 154.5 dBm 8 1 Maps (25 MHz) Roteiver Sensitivity for 802.11n (24 GHz) 154.5 dBm 8 1 Maps (25 MHz) Rotei Maret Power for 802.11n (6 GHz)	Time Management			
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Peddlem 011 Mbps Receiver Sensitivity for 802.11g 19 dBm 0 6.5 Mbps (20 MHz) 71 dBm 0 7.22 Mbps (20 MHz) 71 dBm 0 7.21 Mbps (20 MHz) 72 dBm 0 15 Mbps (21 Hz) 72 dBm 0 15 Mbps (25 MHz) 72 dB	Receiver Sensitivity for 802.11a			
-73 dBm # 64 Mbps Receiver Sensitivity for 802.11n (2.4 GHz) -96 dBm # 6.5 Mbps (20 MHz) -71 dBm # 72.2 Mbps (20 MHz) -71 dBm # 72.2 Mbps (20 MHz) -85 dBm # 150 Mbps (40 MHz) Receiver Sensitivity for 802.11n (5 GHz) -80 dBm # 6.5 Mbps (20 MHz) -85 dBm # 150 Mbps (40 MHz) Modulation Type DS SS Transmission Distance Up to 100 meters (in open areas) Transmission Rate 802.11a/g; 64 Mbps 802.111; 11 Mbps 802.111	Receiver Sensitivity for 802.11b			
-r1 dBm @ 72.2 Mbps (20 MHz) Receiver Sensitivity for 802.11n (5 GHz) 29 dBm @ 6.5 Mbps (20 MHz) -74 dBm @ 72.2 Mbps (20 MHz) -67 dBm @ 150 Mbps (40 MHz) Modulation Type DSSS OFDM Transmission Distance Up to 100 meters (in open areas) Transmission Rate 802.11a/g; 54 Mbps 802.11h: 65 to 150 Mbps 802.11h: 65 to 150 Mbps Transmitter Power for 802.11b 16:1.5 dBm @ 1 Mbps 802.11h: 65 to 150 Mbps Transmitter Power for 802.11g 16:1.5 dBm @ 6 Mbps 11a:1.5 dBm @ 6 Mbps Transmitter Power for 802.11a 15:1.5 dBm @ 6 Mbps 11a:1.5 dBm @ 6 Mbps Transmitter Power for 802.11n (24 GHz) 16dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz) 21 dBm @ 1.5 Mbps (72.2 MHz) Transmitter Power for 802.11n (5 GHz) 16 dBm @ 1.5 Mbps (6.5 MHz) 21 dBm @ 1.5 Mbps (72.2 MHz) Transmitter Power for 802.11n (5 GHz) 16 dBm @ 1.5 Mbps (6.5 MHz) 21 dBm @ 1.5 Mbps (72.2 MHz) Verleess Security WEP encryption (64-bit and 128-bit) WPAWPA2-Energrise (IEEE Ø2.1/WADJUS, TKIP, AES) Varieless Security DB male No. of Ports 169 male No. of Ports 169 male Nort W2150A/W2150A/T: 1 Nort W2250A/W2250A/T: 2 Security Nort W2150A/W2150A/T: 1 Nort W2250A/W2250A/T: 2 Security 169 male Nort W2150A/W2150A/T: 1 Nort W2150A/W2150A/T: 1 Nort W2150A/	Receiver Sensitivity for 802.11g	·		
1' I dBm @ 72.2 Mbps (20 MHz) -8-6 dBm @ 13.5 Mbps (60 MHz) -67 dBm @ 13.5 Mbps (60 MHz)Modulation TypeDSSS OFDMTransmission DistanceUp to 100 metres (in open areas)Tansmission Rate02.114/jc 54 Mbps 802.111/: 5.16 Mbps 802.111/: 5.5 to 150 MbpsTransmitter Power for 802.11b16:1.5 dBm @ 11 Mbps 16:1.5 dBm @ 11 MbpsTransmitter Power for 802.11g16:1.5 dBm @ 1 Mbps 16:1.5 dBm @ 54 MbpsTransmitter Power for 802.11g16:1.5 dBm @ 6 MbpsTransmitter Power for 802.11g16:1.5 dBm @ 6 MbpsTransmitter Power for 802.11a16:1.5 dBm @ 1.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (5 GHz)12 dBm @ 1.5 Mbps (6.5 MHz)Wireleas SocurityWEP encryption (B4-bit and 128-bit) WPAVPA2-Enterprise (BEE 802.1X/RADIUS, TKIP, AES)Wireleas SocurityDB maleOnnectorDB maleNo. of PortsDB maleSocial StandardsRe-232, RS-422, RS-485Operation ModesRel COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Parl onnection mode, Ethernet Modem mode, Disabled	Receiver Sensitivity for 802.11n (2.4 GHz)			
InductionOFDMTransmission DistanceUp to 100 meters (in open areas)Transmission Rate802.11a/g: 54 Mbps 802.11b: 11 Mbps 802.11b: 11 Mbps 802.11b: 11 MbpsTransmitter Power for 802.11b164.1.5 dBm 01 MbpsTransmitter Power for 802.11b164.1.5 dBm 01 MbpsTransmitter Power for 802.11g164.1.5 dBm 06 MbpsTransmitter Power for 802.11g164.1.5 dBm 06 MbpsTransmitter Power for 802.11a164.1.5 dBm 06 MbpsTransmitter Power for 802.11a (24 GHz)16 dBm 01.5 Mbps (6.5 MHz) 12 dBm 01.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (24 GHz)16 dBm 01.5 Mbps (6.5 MHz) 12 dBm 01.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (6 GHz)15 dBm 06.1 Mbps (6.5 MHz) 12 dBm 01.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (6 GHz)15 dBm 01.5 Mbps (6.5 MHz) 12 dBm 01.5 Mbps (150 MHz)Wreless SecurityWFP encryption (84-bit and 128-bit) WPAWPA2-PrersonalWreless SecurityWFP encryption (84-bit and 128-bit) WPAWPA2-PrersonalNo of PortsDB9 maleNo. of PortsNPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2Secial InterfaceSecial StandardsOperation ModesSecial StandardsPort W2250A/W2250A-T: 2Secial StandardsSecial StandardsSecial COM mode, TCP Stever mode, TCP Client mode, UDP mode, RFC2217 mode, Parl Connection mode, Ethernet Modem mode, DisabledSecial StandardsSecial StandardsSecial StandardsSecial StandardsSecial StandardsSecial StandardsSecial StandardsSecial Standards <t< td=""><td>Receiver Sensitivity for 802.11n (5 GHz)</td><td>-71 dBm @ 72.2 Mbps (20 MHz) -85 dBm @ 13.5 Mbps (40 MHz)</td></t<>	Receiver Sensitivity for 802.11n (5 GHz)	-71 dBm @ 72.2 Mbps (20 MHz) -85 dBm @ 13.5 Mbps (40 MHz)		
Transmission Rate802.114/25 44 Mbps 802.111b: 11 Mbps 802.111b: 15 15 150 MbpsTransmitter Power for 802.11b164.15 dBm @ 1 Mbps 164.15 dBm @ 1 MbpsTransmitter Power for 802.11g164.15 dBm @ 1 Mbps 164.15 dBm @ 6 Mbps 144.15 dBm @ 6 Mbps 144.15 dBm @ 6 MbpsTransmitter Power for 802.11a154.15 dBm @ 6 Mbps 144.15 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)16 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (72.2 MHz)Transmitter Power for 802.11n (5 GHz)15 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Transmitter Power for 802.11n (5 GHz)16 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Wireless SecurityWEP encryption (64-bit and 128-bit) WPAWPA2-Entropies (IEEE 802.11/RADIUS, TKIP, AES) WPAWPA2-PersonalVLAN ModesAd-hoc Mode, Infrastructure modeSerial InterfaceDB9 maleNo of PortsNPort W2250A/W2250A-T: 2Serial StandardsRS-232, RS-422, RS-485Operation ModesReal COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pari Connection mode, Ethernet Modem mode, Disabled	Modulation Type			
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I 4±1.5 dBm @ 54 MbpsTransmitter Power for 802.11a\$1.5 dBm @ 64 Mbps (4±1.5 dBm @ 54 Mbps)Transmitter Power for 802.11n (2.4 GHz)\$6 dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (7.2 MHz)Transmitter Power for 802.11n (5 GHz)\$6 dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (5 GHz)\$6 dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (150 MHz)Wireless Security\$6 dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (150 MHz)WLAN ModesAd-hoc Mode, Infrastructure modeSerial Interface\$10 mainConnector\$10 mainNo. of Ports\$10 mainNo. of Ports\$10 mode, TOP Saver mode, TOP Client mode, DIS paledOperation Modes\$8-323, RS-422, RS-485Budrate\$0 bps to 21.6 kbps	Transmitter Power for 802.11b			
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ConnectorDB9 maleNo. of PortsNPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2Serial StandardsRS-232, RS-422, RS-485Operation ModesReal COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, DisabledBaudrate50 bps to 921.6 kbps	WLAN Modes	Ad-hoc Mode, Infrastructure mode		
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NPort W2250A/W2250A-T: 2 Serial Standards RS-232, RS-422, RS-485 Operation Modes Real COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, Disabled Baudrate 50 bps to 921.6 kbps	Connector	DB9 male		
Operation ModesReal COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, DisabledBaudrate50 bps to 921.6 kbps	No. of Ports			
Baudrate 50 bps to 921.6 kbps	Serial Standards	RS-232, RS-422, RS-485		
	Operation Modes			
Data Bits 5, 6, 7, 8	Baudrate	50 bps to 921.6 kbps		
	Data Bits	5, 6, 7, 8		



Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None, RTS/CTS, XON/XOFF
RS-485 Data Direction Control	ADDC® (automatic data direction control)
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
Terminator for RS-485	120 ohms
Surge	1 kV
Physical Characteristics	
Housing	Metal
Installation	Desktop, DIN-rail mounting (with optional kit), Wall mounting
Dimensions (with ears, without antenna)	77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)
Dimensions (without ears or antenna)	100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)
Weight	NPort W2150A/W2150A-T: 547 g (1.21 lb) NPort W2250A/W2250A-T: 557 g (1.23 lb)
Antenna Length	109.79 mm (4.32 in)
Environmental Limits	
Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 75°C (-40 to 167°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Power Parameters	
Input Current	NPort W2150A/W2150A-T: 179 mA @ 12 VDC NPort W2250A/W2250A-T: 200 mA @ 12 VDC
Input Voltage	12 to 48 VDC
Standards and Certifications	
EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs
Radio Frequency	CE (ETSI EN 301 893, ETSI EN 300 328, ETSI EN 301 489-17, ETSI EN 301 489-1), ARIB RCR STD-33, ARIB STD-66
Reliability	
Alert Tools	RTC (real-time clock)
Automatic Reboot Trigger	Built-in WDT

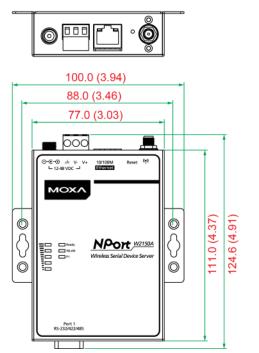


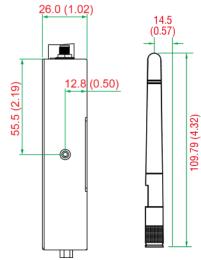
MTBF

Time	NPort W2150A/W2150A-T: 383,187 hrs NPort W2250A/W2250A-T: 363,327 hrs
Standards	Telcordia (Bellcore) Standard TR/SR
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x NPort W2150A/W2250A Series device server
Power Supply	1 x power adapter, suitable for your region (standard temp. models only)
Antenna	1 x 2.4/5 GHz antenna

Dimensions

Unit: mm (inch)





Ordering Information

Model Name	No. of serial ports	Serial Standards	Baudrate	Operating Temp.	Input Current	Input Voltage
NPort W2150A	1	RS-232/422/485	50 bps to 921.6 kbps	0 to 55°C	179 mA @ 12 VDC	12-48 VDC
NPort W2250A	2	RS-232/422/485	50 bps to 921.6 kbps	0 to 55°C	200 mA @ 12 VDC	12-48 VDC
NPort W2150A-T	1	RS-232/422/485	50 bps to 921.6 kbps	-40 to 75°C	179 mA @ 12 VDC	12-48 VDC
NPort W2250A-T	2	RS-232/422/485	50 bps to 921.6 kbps	-40 to 75°C	200 mA @ 12 VDC	12-48 VDC



Accessories (sold separately)

Cables	
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
Connectors	
ADP-RJ458P-DB9F	DB9 female to RJ45 connector
Mini DB9F-to-TB	DB9 female to terminal block connector
DIN-Rail Mounting Kits	
DK35A	DIN-rail mounting kit, 35 mm
Power Cords	
CBL-PJ21NOPEN-BK-30	Locking barrel plug to bare-wire cable
Power Adapters	
PWR-12050-WPAU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, Australia (AU) plug, 0 to 40°C operating temperature
PWR-12050-WPCN-S1	Locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, China (CN) plug, 0 to 40°C operating temperature
PWR-12050-WPEU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature
PWR-12050-WPUK-S1	Locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature
PWR-12050-WPUSJP-S1	Locking barrel plug, 12 VDC, 0.5 A, 100-240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Australia (AU) plug, -40 to 75°C operating temperature
	Applicable Models: NPort W2150A-T NPort W2250A-T
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, China (CN) plug, -40 to 75°C operating temperature
	Applicable Models: NPort W2150A-T NPort W2250A-T
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Continental Europe (EU) plug, -40 to 75°C operating temperature
	Applicable Models: NPort W2150A-T NPort W2250A-T
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, United Kingdom (UK) plug, -40 to 75°C operating temperature
	Applicable Models: NPort W2150A-T NPort W2250A-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100-240 VAC, United States/Japan (US/JP) plug, -40 to 75°C operating temperature
	Applicable Models: NPort W2150A-T NPort W2250A-T
Antennas	
ANT-WDB-ARM-02	2.4/5 GHz, omni-directional rubber duck antenna, 2 dBi, RP-SMA (male)



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