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

CEF©

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
MIB	Device Settings MIB, RFC1213, RFC1317



Inter ManagementNTP Clent, SNTP ClentWLAN Intorface96211a/b/g/nWLAN Standards96211a/b/g/nReceiver Sensitivity for 802.11a97.4 dBm 6 f Mbps -7.4 dBm 6 f MbpsReceiver Sensitivity for 802.11a97.4 dBm 6 f MbpsReceiver Sensitivity for 802.11a97.4 dBm 6 f MbpsReceiver Sensitivity for 802.11a97.4 dBm 6 f MbpsReceiver Sensitivity for 802.11m (2.4 GHz)97.4 dBm 7 6 5 Mbps (20 MHz) -7.7 dBm 7 22 Mbps (20 MHz) -7.7 dBm 7 23 Mbps (20 MHz) -7.7 dBm 7 22 Mbps (20 MHz) -7.7 dBm 7 22 Mbps (20 MHz) -7.7 dBm 7 22 Mbps (20 MHz) -7.7 dBm 7 23 Mbps (20 MHz) -7.7 dBm 7	Security	HTTPS/SSL, Local Account Accessibility, TACACS+, SSH		
Aux Interface Receiver Sensitivity for 802.11a 802.11a/b/g/n Receiver Sensitivity for 802.11a 91 dBm 69 Mapps Receiver Sensitivity for 802.11a 91 dBm 66 Mapps Receiver Sensitivity for 802.11g 99 dBm 66.5 Mapps (20 MHz) Receiver Sensitivity for 802.11g 99 dBm 66.5 Mapps (20 MHz) Receiver Sensitivity for 802.11g 99 dBm 66.5 Mapps (20 MHz) Receiver Sensitivity for 802.11g 99 dBm 66.5 Mapps (20 MHz) Receiver Sensitivity for 802.11g 99 dBm 65.5 Mapps (20 MHz) Modulation Type 90 dBm 65.5 Mapps (20 MHz) Receiver Sensitivity for 802.11g 100 to 100 meters (in open areas) Transmitson Distance 100 100 meters (in open areas) Transmitser Power for 802.11g 164.5 dBm 61 Mapps Transmitser Power for 802.11g 164.5 dBm 61 Mapps Transmitser Power for 802.11g 164.5 dBm 61 Mapps (65 MHz) Transmitser Power for 802.11g (24 GHz) 16 dBm 61 Mapps (65 MHz) Transmitser Power for 802.11g (24 GHz) 16 dBm 6	Time Management			
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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 (64-bit and 128-bit) WPAWPA2-PrersonalWreless SecurityWFP encryption (64-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)		
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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

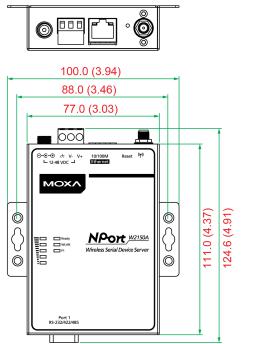


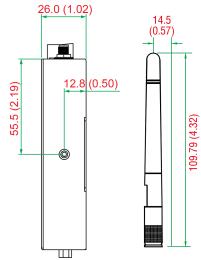
MTBF

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
Device Power Supply	1 x NPort W2150A/W2250A Series device server 1 x power adapter, suitable for your region (standard temp. models only)

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
Dowor Adoptoro	
Power Adapters	Looking barrol plug 12 VDC 0.5 A 100 240 VAC Australia (ALI) plug 0.45 40°C apprentias to use sectors
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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