# NPort W2150A/W2250A Series

### 1 and 2-port serial-to-Wi-Fi (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
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	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 (24 GHz)     99 dBm 66.5 Mapps (20 MHz)       Receiver Sensitivity for 802.11g (24 GHz)     99 dBm 66.5 Mapps (20 MHz)       Receiver Sensitivity for 802.11g (24 GHz)     99 dBm 66.5 Mapps (20 MHz)       Modulation Type     00 dBm 65 S Mapps (20 MHz)       Receiver Sensitivity for 802.11g (24 GHz)     99 dBm 66.5 Mapp (20 MHz)       Transmission Distance     Up to 100 meters (in open areas)       Transmitser Power for 802.11g (24 GHz)     164.15 dBm 61 Mapps (25 MHz)       Transmitser Power for 802.11g (24 GHz)     164.15 dBm 61 Mapps (25 MHz)       Transmitser Power for 802.11g (24 GHz)     164.15 dBm 61 Mapps (25 MHz)       Transmitser Power for 802.11g (24 GHz)     16 dBm 61 Mapps (25 MHz)       Transmitser Power for 802.11m (24 GHz)     16 dBm 61 Mapps (15 MHz)	Time Management	NTP Client, SNTP Client
NUAN Standards802.11a/b/g/nReceiver Sensitivity for 802.11a-91 dBm @ 6 Mpps -74 dBm @ 4 MppsReceiver Sensitivity for 802.11a-91 dBm @ 6 Mpps -94 dBm @ 11 MppsReceiver Sensitivity for 802.11g-91 dBm @ 6 Mpps -71 dBm @ 72.2 Mpps (20 MHz) -71 dBm @ 72.2 Mpps (20 MHz) -80 dBm @ 6.5 Mpps (20 MHz) -80 dBm @ 6.5 Mpps (20 MHz) -80 dBm @ 6.5 Mpps (20 MHz) -80 dBm @ 15.5 Mpps (20 MHz) -71 dBm @ 72.2 Mpps (20 MHz) -80 dBm @ 15.5 Mpps (20 MHz) -71 dBm @ 72.2 Mpp (20 MHz) -71 dBm @ 72.2 Mhz)Modulation TypeDSSS OFDMTransmission DistanceUp to 100 meters (in open areas)Transmiter Power for 802.11bGe1.5 dBm @ 11 Mpps Ge1.11 MtpsTransmiter Power for 802.11bGe1.5 dBm @ 1 Mpps Ge1.11 MtpsTransmiter Power for 802.11aGe1.5 dBm @ 1 Mpps Ge1.11 MtpsTransmiter Power for 802.11aGe1.6 dBm @ 1 Mpps Ge1.11 MtpsTransmiter Power for 802.11aGe1.6 dBm @ 1 Mpps Ge1.11 MtpsTransmiter Power for 802.11aGe1.6 dBm @ 1 Mpps Ge1.6 MHz) 2 dBm @ 1.5 Mpps (ES MHz) 2 dBm @ 1.5 Mpps (ES MHz)Transmiter Power for 802.11a (S GHz)Stolm @ 1.5 Mpps (ES MHz) 2 dBm @ 1.5 Mpps (ES MHz) 2 dBm @ 1.5 Mpps (ES MHz) 2 dBm @ 1.5 Mpps (ES MHz)Mirles SocurityNort WZSCAVAZZGAT.11 2 dBm		
Indexter Power for 802.11b-74 dBm 8 54 MbpsReceiver Sensitivity for 902.11g-91 dBm 8 6 Mbps -73 dBm 8 72.2 Mbps (20 MHz) -71 dBm 8 72.4 Mbps (20 MHz)Transmitter Power for 802.11p164.15 dBm 8 6 Mbps 12.4 Mbps (20 MHz) 22.4 Mbps (20 MHz)Transmitter Power for 802.11n (2.4 GHz)164.15 dBm 8 6 Mbps (2.5 MHz) 22.4 Mbps (20 MHz)Transmitter Power for 802.11n (2.4 GHz)164.15 dBm 8 1.5 Mbps (2.5 MHz) 22.4 Mbps (20 MHz)Transmitter Power for 802.11n (2.4 GHz)164.15 dBm 8 1.5 Mbps (2.5 MHz) 22.4 Mbps (2.5 MHz)MindessAdhenc Mode, Infrastructure modeStall InterfaceSet Mbps (2.5 MHz) 22.4 Mbps (2.5 MHz)N		802.11a/b/g/n
Per dem @ 11 Mbps   Receiver Sensitivity for 802.11g 19 dBm @ 6.5 Mbps (20 MHz) 71 dBm @ 7.2 Mbps (20 MHz) 71 dBm @ 7.1 Mbps 802 Hir 11 Mbps 802 Hir 15 dBm @ 11 Mbps 80 Hir 15 dBm @ 1	Receiver Sensitivity for 802.11a	
-73 dBm # 64 Mbps     Receiver Sensitivity for 802.11n (24 GHz)   -96 dBm # 65. 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 # 65. 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 81:4:1.5 dBm @ 6 Mbps   Transmitter Power for 802.11n (24 GHz) 16:dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (72.2 MHz)   Transmitter Power for 802.11n (5 GHz) 16:dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (72.2 MHz)   Transmitter Power for 802.11n (5 GHz) 16:dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (72.2 MHz)   Verleess Security WEP encryption (64-bit and 128-bit) WPAWPA2-Energrise (IEEE Ød2.10/RADIUS, TKIP, AES) WPAWPA2-Energrise (IEEE Ød2.10/RADIUS, TKIP, AES)   Varial Standards B9 male   Nort W2150A/W2150A-T: 1 Nort W2250A/W2250A-T: 2 Connector   Operation Modes Balc OM mode, TCP Server mode, TCP Cleint mode, IDP mode, RFC2217 mode, Palc Connection mode, Etherner Modem mode, Bisabid	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 (25 44 Mbps 802.111: 15 Mbps 161: 15 dBm @ 1 Mbps 161: 15 dBm @ 1 Mbps 161: 15 dBm @ 6 MbpsTransmitter Power for 802.110161: 15 dBm @ 6 Mbps 14: 15 dBm @ 54 MbpsTransmitter Power for 802.11116 dBm @ 1.5 Mbps (55 MHz) 12 dBm @ 1.5 Mbps (55 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Transmitter Power for 802.11n (5 GHz)15 dBm @ 1.5 Mbps (150 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Wree encryption (64-bit and 128-bit) WYPAVPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPAVPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPAWPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)Wree encryption (64-bit and 128-bit) WYPAVPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPAWPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)Wree encryption (64-bit and 128-bit) WPAVPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)OnectorDB maleNo. of PortsMort W2150AV72150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT2150AVT	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 Mbps 802.111b: 6.5 to 150 MbpsTransmitter Power for 802.11b16:1.5 dBm @ 1 Mbps 16:2.1.5 dBm @ 1 MbpsTransmitter Power for 802.11g16:1.5 dBm @ 6 Mbps 14:1.5 dBm @ 6 MbpsTransmitter Power for 802.11a16:2.1.5 dBm @ 6 Mbps 14:1.5 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 802.1X/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	
B02.11b.11 Mbps B02.11n: 6.5 to 150 MbpsTransmitter Power for 802.11b16±1.5 dBm @ 1 Mbps 16±1.5 dBm @ 1 MbpsTransmitter Power for 802.11g16±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 MbpsTransmitter Power for 802.11a15±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 MbpsTransmitter Power for 802.11a15±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (24 GHz)16 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (5 GHz)16 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Transmitter Power for 802.11n (5 GHz)15 dBm @ 1.5 Mbps (150 MHz)Wireless Security12 dBm @ 1.5 Mbps (150 MHz)Wireless SecurityWPP encryption (64-bit and 128-bit) WPA/WPA2-PersonalWLAN ModesAd-hoc Mode, Infrastructure modeSerial InterfaceDB9 maleNo. of PortsDB9 maleNo of PortsRs-232, RS-422, RS-485Operation ModesRs-232, RS-422, RS-485Operation ModesBeal COM mode, TCP Server mode, TDP Client mode, UDP mode, RFC2217 mode, Pari DisabledBadrate05 up to 921.6 kbps	Transmission Distance	Up to 100 meters (in open areas)
16±1.5 dBm @ 11 MbpsTransmitter Power for 802.11gfs±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 MbpsTransmitter Power for 802.11afs±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)fc dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (6.5 MHz)Transmitter Power for 802.11n (5 GHz)fb dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Wireless SecurityWPP encryption (64-bit and 128-bit) WPAWPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPAWPA2-PrersonalWLAN ModesAd-hoc Mode, Infrastructure modeSerial InterfaceDB9 maleNo. of PortsDB9 maleNo. of PortsRS-232, RS-422, RS-485Operation ModesReal COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, DisabledBaudrateSob ps to 921.6 kbps	Transmission Rate	802.11b: 11 Mbps
I 4±1.5 dBm @ 54 MbpsTransmitter Power for 802.11a\$51.5 dBm @ 6 Mbps (4±1.5 dBm @ 54 Mbps)Transmitter Power for 802.11n (2.4 GHz)\$6dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (7.2 MHz)Transmitter Power for 802.11n (5 GHz)\$6dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (50 MHz)Transmitter Power for 802.11n (5 GHz)\$6dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (50 MHz)Wireless Security\$6dBm @ 1.5 Mbps (6.5 MHz) (2 dBm @ 1.5 Mbps (160 MHz)WLAN ModesAd-hoc Mode, Infrastructure modeSerial Interface\$90 maleConnector\$10 maleNo. of Ports\$80 maleNo. of Ports\$87.232, RS-422, RS-485Operation Modes\$81.200 mode, TCP Server mode, TCP Cleint mode, DISpaledBudrate\$0 bps to 21.6 kbps	Transmitter Power for 802.11b	•
It at 1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)16 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (7.2 MHz)Transmitter Power for 802.11n (5 GHz)15 dBm @ 1.5 Mbps (6.5 MHz) 12 dBm @ 1.5 Mbps (150 MHz)Wireless SecurityWEP encryption (64-bit and 128-bit) WPA/WPA2-EnersonalWLAN ModesAd-hoc Mode, Infrastructure modeSerial InterfaceDB9 maleNo. of PortsNPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2Serial StandardsRS-232, RS-422, RS-485Operation ModesSel COM mode, TCP Server mode, TCP Client mode, MDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, DisabledBaudrate50 bps to 921.6 kbps	Transmitter Power for 802.11g	
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)Wireless SecurityWEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-PersonalWLAN ModesAd-hoc Mode, Infrastructure modeSerial InterfaceDB9 maleConnectorDB9 maleNo. of PortsNPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2Serial StandardsRS-232, RS-422, RS-485Operation ModesBeal COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, Disabled	Transmitter Power for 802.11a	
12 dBm @ 1.5 Mbps (150 MHz)     Wireless Security   WEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-Personal     WLAN Modes   Ad-hoc Mode, Infrastructure mode     Serial Interface   DB9 male     No. of Ports   NPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2     Serial Standards   RS-232, RS-485     Operation Modes   Sel COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connection mode, Ethernet Modem mode, Disabled	Transmitter Power for 802.11n (2.4 GHz)	
WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)     WLAN Modes   Ad-hoc Mode, Infrastructure mode     Serial Interface   DB9 male     Connector   DB9 male     No. of Ports   NPort W2150A/W2150A-T: 1 NPort W2250A/W2250A-T: 2     Serial Standards   RS-232, RS-422, RS-485     Operation Modes   Sel COM mode, TCP Server mode, TCP Client mode, UDP mode, RFC2217 mode, Pair Connector mode, Ethernet Modem mode, Disabled	Transmitter Power for 802.11n (5 GHz)	
Serial Interface   DB9 male     No. of Ports   DPort W2150A/W2150A-T: 1 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	Wireless Security	WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)
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
No. 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	Serial Interface	
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

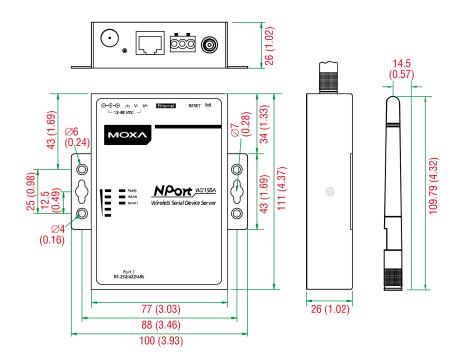


#### MTBF

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			
D. S.			
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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