

NPort W2150A-W4/W2250A-W4 系列

1 和 2 埠 RS-232/422/485 IEEE 802.11a/b/g 無線串列設備伺服器



特色與優點

- 可將任何串列裝置連接至 IEEE 802.11a/b/g 網路
- 透過內建乙太網路或 WLAN 執行 Web-based 設定
- 安全啟動，僅允許 Moxa 授權的韌體在裝置上運作
- 利用 HTTPS 和 SSH 強化遠端設定
- 透過 WEP、WPA 和 WPA2 保護存取資料的安全性
- 快速漫遊，可在存取點之間快速自動切換
- 具備離線埠緩衝和串列資料記錄功能
- 強化的區域網路、串列和電力突波保護
- 雙電源輸入 (1 螺旋式電源接頭、1 端子台)

認證



簡介

NPort® W2150A-W4 和 W2250A-W4 是將串列和乙太網路裝置 (例如 PLC、儀表和感測器) 連接到無線 LAN 的理想選擇。您的通訊軟體將能夠透過無線 LAN 隨處存取串列裝置。此外，無線裝置伺服器需要較少纜線，相當適合不便佈線的應用。在基礎架構模式模式中，NPort® W2150A-W4 和 NPort® W2250A-W4 可以連接辦公室和工廠的 Wi-Fi 網路，以便使用者在多個 AP (存取點) 之間移動或漫遊，並且對於經常在不同的地點之間移動的裝置提供絕佳的解決方案。

規格

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/2008/7/8/8.1/10/11 (x86/ x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Server 2022, Windows XP Embedded
Linux Real TTY Drivers	Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.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
Security	HTTPS/SSL User Authentication Management: local database, RADIUS Secure Protocols: HTTPS (TLSv1.2), SSH, SNMPv3 Cryptography: HMAC, SHA-1, SHA-256, SHA-384, RSA-1024, AES-128, AES-256
Time Management	NTP Client SNTP Client

WLAN Interface

WLAN Standards	802.11a/b/g/n
Receiver Sensitivity for 802.11a (measured at 5.680 GHz)	Typ. -91 @ 6 Mbps Typ. -74 @ 54 Mbps
Receiver Sensitivity for 802.11b (measured at 2.437 GHz)	Typ. -92 dBm @ 1 Mbps Typ. -84 dBm @ 11 Mbps
Receiver Sensitivity for 802.11g (measured at 2.437 GHz)	Typ. -91 dBm @ 6 Mbps Typ. -73 dBm @ 54 Mbps
Receiver Sensitivity for 802.11n (2.4 GHz; measured at 2.437 GHz)	Typ. -89 dBm @ 6.5 Mbps (20 MHz) Typ. -71 dBm @ 72.2 Mbps (20 MHz)
Receiver Sensitivity for 802.11n (5 GHz; measured at 5.680 GHz)	Typ. -89 dBm @ 6.5 Mbps (20 MHz) Typ. -71 dBm @ 72.2 Mbps (20 MHz) Typ. -85 dBm @ 13.5 Mbps (40 MHz) Typ. -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 802.11b: 11 Mbps 802.11n: 6.5 to 150 Mbps
Transmitter Power for 802.11b	16±1.5 dBm @ 1 Mbps 16±1.5 dBm @ 11 Mbps
Transmitter Power for 802.11g	16±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 Mbps
Transmitter Power for 802.11a	15±1.5 dBm @ 6 Mbps 14±1.5 dBm @ 54 Mbps
Transmitter 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)
Frequency Band for CN (20 MHz operating channels)	2.412 to 2.472 GHz (13 channels) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ¹ 5.745 to 5.825 GHz (5 channels)
Frequency Band for EU (20 MHz operating channels)	2.412 to 2.472 GHz (13 channels)

1. 支援 DFS (動態頻率選擇) 頻道：在 AP 模式下，當設備偵測到一個雷達信號，會自動切換到另一個頻道。然而，根據規定，當頻道切換後，若要重啟服務，需要 60 秒的可用性檢查期。

	5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ² 5.500 to 5.700 GHz (11 channels) ²
Frequency Band for JP (20 MHz operating channels)	2.412 to 2.472 GHz (13 channels) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ² 5.500 to 5.700 GHz (11 channels) ²
Frequency Band for US (20 MHz operating channels)	2.412 to 2.462 GHz (11 channels) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ² 5.500 to 5.700 GHz (11 channels) ² 5.745 to 5.825 GHz (5 channels)
Wireless Security	WEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-Personal
WLAN Modes	Infrastructure mode

Antenna Characteristics

Connector	RP-SMA (male)
Antenna Type	Omni-directional

Security Functions

Authentication	Local database RADIUS
Encryption	AES-128 AES-256 HMAC RSA-1024 SHA-1 SHA-256 SHA-384
Security Protocols	SNMPv3 SSHv2 HTTPS (TLS 1.2)
Wireless Security	WEP WPA/WPA2-Enterprise WPA/WPA2-Personal
Hardware-based Security	Secure Boot

Serial Interface

Connector	DB9 male
No. of Ports	NPort W2150A-W4/W2150A-W4-T: 1 NPort W2250A-W4/W2250A-W4-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

2. 支援 DFS (動態頻率選擇) 頻道：在 AP 模式下，當設備偵測到一個雷達信號，會自動切換到另一個頻道。然而，根據規定，當頻道切換後，若要重啟服務，需要 60 秒的可用性檢查期。

	Disabled
Baudrate	300 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)	100 x 111 x 26 mm (3.94 x 4.37 x 1.02 in)
Dimensions (without ears or antenna)	77 x 111 x 26 mm (3.03 x 4.37 x 1.02 in)
Weight	NPort W2150A-W4/W2150A-W4-T: 185 g (0.41 lb) NPort W2250A-W4/W2250A-W4-T: 191 g (0.42 lb)
Antenna Length	108 mm (4.25 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-W4/W2150A-W4-T: 429 mA @ 12 VDC NPort W2250A-W4/W2250A-W4-T: 455 mA @ 12 VDC
Input Voltage	12 to 48 VDC

Standards and Certifications

EMC	EN 55032/35
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

Radio Frequency	CE (ETSI EN 301 893, ETSI EN 300 328, ETSI EN 301489-1/-17), MIC, KC, RCM, WPC
Safety	UL 62368-1 IEC 62368-1

Reliability

Alert Tools	RTC (real-time clock)
Automatic Reboot Trigger	Built-in WDT

MTBF

Time	NPort W2150A-W4/W2150A-W4-T: 1,356,464 hrs NPort W2250A-W4/W2250A-W4-T: 1,187,539 hrs
Standards	Telcordia SR332

Warranty

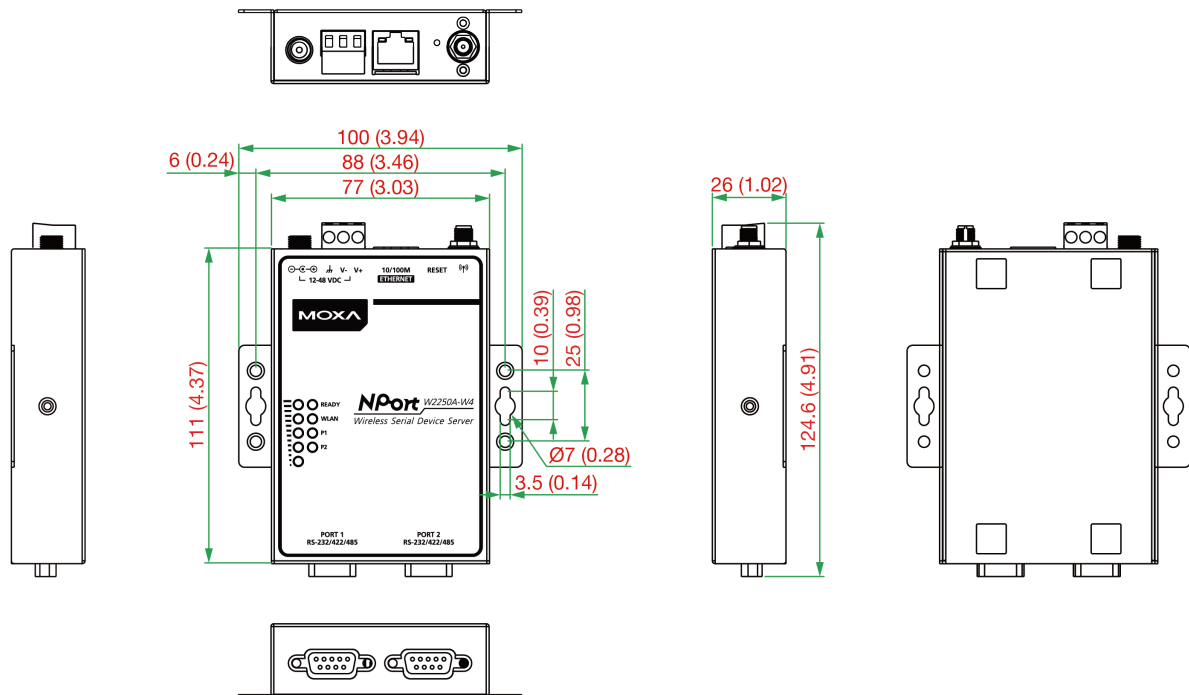
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x NPort W2150A-W4/W2250A-W4 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
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐 (英吋)



訂購資訊

Model Name	No. of serial ports	WLAN Channels	Input Current	Operating Temp.	Power Adapter in Box	Notes
NPort W2150A-W4-CN	1	China bands	429 mA @ 12 VDC	0 to 55°C	Yes (CN plug)	—
NPort W2150A-W4-EU	1	Europe bands	429 mA @ 12 VDC	0 to 55°C	Yes (EU/UK/AU plug)	—
NPort W2150A-W4-EU/KC	1	Europe bands	429 mA @ 12 VDC	0 to 55°C	Yes (KR plug)	KC certificate
NPort W2150A-W4-JP	1	Japan bands	429 mA @ 12 VDC	0 to 55°C	Yes (JP plug)	—
NPort W2150A-W4-US	1	US bands	429 mA @ 12 VDC	0 to 55°C	Yes (US plug)	—
NPort W2150A-W4-T-CN	1	China bands	429 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2150A-W4-T-EU	1	Europe bands	429 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2150A-W4-T-JP	1	Japan bands	429 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2150A-W4-T-US	1	US bands	429 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2250A-W4-CN	2	China bands	455 mA @ 12 VDC	0 to 55°C	Yes (CN plug)	—
NPort W2250A-W4-EU	2	Europe bands	455 mA @ 12 VDC	0 to 55°C	Yes (EU/UK/AU plug)	—
NPort W2250A-W4-EU/KC	2	Europe bands	455 mA @ 12 VDC	0 to 55°C	Yes (KR plug)	KC certificate
NPort W2250A-W4-JP	2	Japan bands	455 mA @ 12 VDC	0 to 55°C	Yes (JP plug)	—
NPort W2250A-W4-US	2	US bands	455 mA @ 12 VDC	0 to 55°C	Yes (US plug)	—
NPort W2250A-W4-T-CN	2	China bands	455 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2250A-W4-T-EU	2	Europe bands	455 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2250A-W4-T-JP	2	Japan bands	455 mA @ 12 VDC	-40 to 75°C	No	—
NPort W2250A-W4-T-US	2	US bands	455 mA @ 12 VDC	-40 to 75°C	No	—

配件 (選購)

Antennas

ANT-WDB-ASM-03 BK	2 dBi at 2.4 GHz or 2 dBi at 5 GHz, RP-SMA (male) omnidirectional rubber-duck antenna
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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
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Power Adapters

PWR-12050-AU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature
PWR-12050-CN-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature
PWR-12050-EU-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature
PWR-12050-UK-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature
PWR-12050-USJP-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature

PWR-12050-KR-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, KR plug, 0 to 40°C operating temperature
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature Applicable Models: NPort W2150A-W4-T-CN NPort W2150A-W4-T-EU NPort W2150A-W4-T-JP NPort W2150A-W4-T-US NPort W2250A-W4-T-CN NPort W2250A-W4-T-EU NPort W2250A-W4-T-JP NPort W2250A-W4-T-US
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, -40 to 75°C operating temperature Applicable Models: NPort W2150A-W4-T-CN NPort W2150A-W4-T-EU NPort W2150A-W4-T-JP NPort W2150A-W4-T-US NPort W2250A-W4-T-CN NPort W2250A-W4-T-EU NPort W2250A-W4-T-JP NPort W2250A-W4-T-US
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, -40 to 75°C operating temperature Applicable Models: NPort W2150A-W4-T-CN NPort W2150A-W4-T-EU NPort W2150A-W4-T-JP NPort W2150A-W4-T-US NPort W2250A-W4-T-CN NPort W2250A-W4-T-EU NPort W2250A-W4-T-JP NPort W2250A-W4-T-US
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, -40 to 75°C operating temperature Applicable Models: NPort W2150A-W4-T-CN NPort W2150A-W4-T-EU NPort W2150A-W4-T-JP NPort W2150A-W4-T-US NPort W2250A-W4-T-CN NPort W2250A-W4-T-EU NPort W2250A-W4-T-JP NPort W2250A-W4-T-US
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, US/JP plug, -40 to 75°C operating temperature Applicable Models: NPort W2150A-W4-T-CN NPort W2150A-W4-T-EU NPort W2150A-W4-T-JP NPort W2150A-W4-T-US NPort W2250A-W4-T-CN NPort W2250A-W4-T-EU NPort W2250A-W4-T-JP NPort W2250A-W4-T-US

Power Cords

CBL-PJ21NOPEN-BK-30	Locking barrel plug to bare-wire cable
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