

NPort 6100-G2/6200-G2 系列

2 代 1/2 埠 RS-232/422/485 安全終端伺服器



特色與優點

- 使用安全的 Real COM、TCP Server、TCP Client、Pair Connection、Terminal 和 Reverse Terminal 作業模式進行資料加密
- 支援 RSA-4096/ECC-521 SSL 憑證簽署
- 安全啟動僅允許 Moxa 授權的韌體在裝置上執行
- 側面安裝選項和兩側 LED 滿足一切安裝情境並達到系統小型化
- 串列介面的簡單 RS-485 配置，具備軟體可調式上拉/下拉電阻和終端器

認證



簡介

Moxa 運用 IEC 62443-4-1 安全開發生命週期流程開發新世代安全終端伺服器。NPort 6100-G2/6200-G2 系列安全終端伺服器遵循 IEC 62443-4-2 設計和指南，可將傳統串列裝置安全地連線到工業網路。此外，Moxa 在串列連接領域累積 35 年的經驗，提供適合不同空間需求的多功能安裝方式和容易維護的故障排除工具，充分增強使用者體驗。

安全數據傳輸

對於許多應用程式，將串列裝置連接至網路，考量的重點就是保護資料傳輸的安全性。為了解決這個問題，NPort® 6100-G2/6200-G2 安全終端伺服器支援 TLS 和 SSH 通訊協定，這些通訊協定會在透過網路傳輸資料之前先將資料進行加密。使用 NPort® 6100-G2/6200-G2，您可放心在私有或公用網路上安全地傳送串列資料。

透過側面安裝和軟體可配置式上拉/下拉電阻器和終端器輕鬆部署

為了因應縮小系統和簡化設定的趨勢，NPort® 6100-G2/6200-G2 安全終端伺服器支援側面安裝和兩側 LED，藉以適應各種安裝情境，並實現系統尺寸縮小的額外安裝效益。軟體可配置式上拉/下拉電阻和終端器功能，不需要打開機箱即可調整上拉/下拉電阻或終端器，便於操作人員在現場安裝裝置。

藉由一鍵式日誌收集輕鬆進行排除故障

在維護階段，系統錯誤可能需要您尋求協助。裝置供應商可能需要很長時間來解決問題，因為他們需要收集資訊，然後與技術支援團隊進行討論。NPort 6100-G2/6200-G2 具備記錄資料的一鍵式日誌收集功能，可提供技術支援團隊快速排除系統問題所需的全部資料。

規格

Memory	
SD Slot	NPort 6200-G2 models: microSD card Up to 2 TB (high speed, 25 Mbps)
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1 Auto MDI/MDI-X connection
Magnetic Isolation Protection	1.5 kV (built-in)

Ethernet Software Features

Configuration Options	Web Console (HTTP/HTTPS) Windows Utility Device Search Utility (DSU) MCC Tool Serial Console
Management	ARP DHCP Client DNS HTTPS ICMP IPv4/IPv6 SMTP SMTPS SNMPv1/v2c/v3 SNTP TCP/IP UDP WINS
Windows Real COM Drivers	Windows 11, 10, 8.1, 8, and 7 Windows Server 2022, 2019, 2016, 2012 R2, 2012, and 2008 R2
Linux Real TTY Drivers	Kernel versions 6.x, 5.x, and 4.x
Fixed TTY Drivers	macOS versions: 14, 13, 12, and 11
Arm®-based Platform Support	Windows 11 Linux kernel 6.x, 5.x, and 4.x macOS 14, 13, 12, and 11
Virtual Machine	VMWare ESXi (Windows 11/10/8.1/8/7 & Linux 6.x, 5.x, and 4.x) VMware Fusion (Windows on macOS 14, 13, 12, and 11) Parallels Desktop (Windows on macOS 14, 13, 12, and 11)
Time Management	SNTP Client
MIB	MIB-II RFC1213, RFC1317 Private MIB
Unicast Routing	RIPv1/V2 Static Route

Security Functions

Root of Trust	Secure Boot True Random Number Generator (TRNG) Security Screws
Authentication	Local database RADIUS TACACS+
Encryption	AES-128 AES-256 ECC-256 ECC-384 ECC-521 HMAC RSA-1024 RSA-2048 RSA-3072 RSA-4096 SHA-256 SHA-384
Security Protocols	HTTPS (TLS 1.2) SNMPv3 SSHv2

Serial Interface

Connector	DB9 male
No. of Ports	NPort 6150-G2 models: 1 NPort 6250-G2 models: 2
Serial Standards	RS-232 RS-422 RS-485
Secure Operation Modes	Reverse SSH Secure Pair Connection Secure Real COM Secure TCP Client Secure TCP Server SSH
Standard Operation Modes	Disabled Pair Connection SLIP PPP Real COM Reverse Terminal RFC2217 TCP Client TCP Server Terminal UDP
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Flow Control	None RTS/CTS DTR/DSR RTS Toggle XON/XOFF
Parity	None, Even, Odd, Space, Mark
RS-485 Data Direction Control	Automatic Data Direction Control (ADDC)
Terminator for RS-485	120 ohms
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms (software-configurable)

Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

Power Parameters

Input Current	12 to 48 VDC, 160 mA (max.)
Input Voltage	12 to 48 VDC

Reliability

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

Physical Characteristics

Housing	Metal
Dimensions (with ears)	NPort 6150-G2 models: 64 x 111.8 x 25 mm (2.52 x 4.4 x 0.98 in) NPort 6250-G2 models: 76.3 x 122.4 x 25 mm (3 x 4.82 x 0.98 in)
Weight	Product with package: NPort 6150-G2: 228 g (0.50 lb); 437 g (0.96 lb) NPort 6150-G2-T: 228 g (0.50 lb); 302 g (0.67 lb) NPort 6250-G2: 278 g (0.61 lb); 487 g (1.07 lb) NPort 6250-G2-T: 278 g (0.61 lb); 352 g (0.78 lb)
Installation	Desktop DIN-rail mounting (with optional kit) Wall mounting (with optional kit) Side-panel mounting (with optional kit)

Environmental Limits

Operating Temperature	Standard models: -10 to 60°C (14 to 140°F) Standard models with power adapter (in the box): 0 to 40°C (32 to 104°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)

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: 1 kV(AC), 0.5 kV(DC); Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV(AC), 0.5 kV(DC); Signal: 0.5 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF IEC 61000-4-11
Traffic Control	NEMA TS2
Vibration	IEC 60068-2-6
Package Drop Test	ISTA 1A
Safety	IEC 62368-1 UL 62368-1 EN 62368-1
International Approval	KC

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	NPort 6150-G2/6150-G2-T: 3,843,653 hrs NPort 6250-G2/6250-G2-T: 3,351,651 hrs
Standards	Telcordia Standard SR-332 Telcordia SR-332 Issue 4

Warranty

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

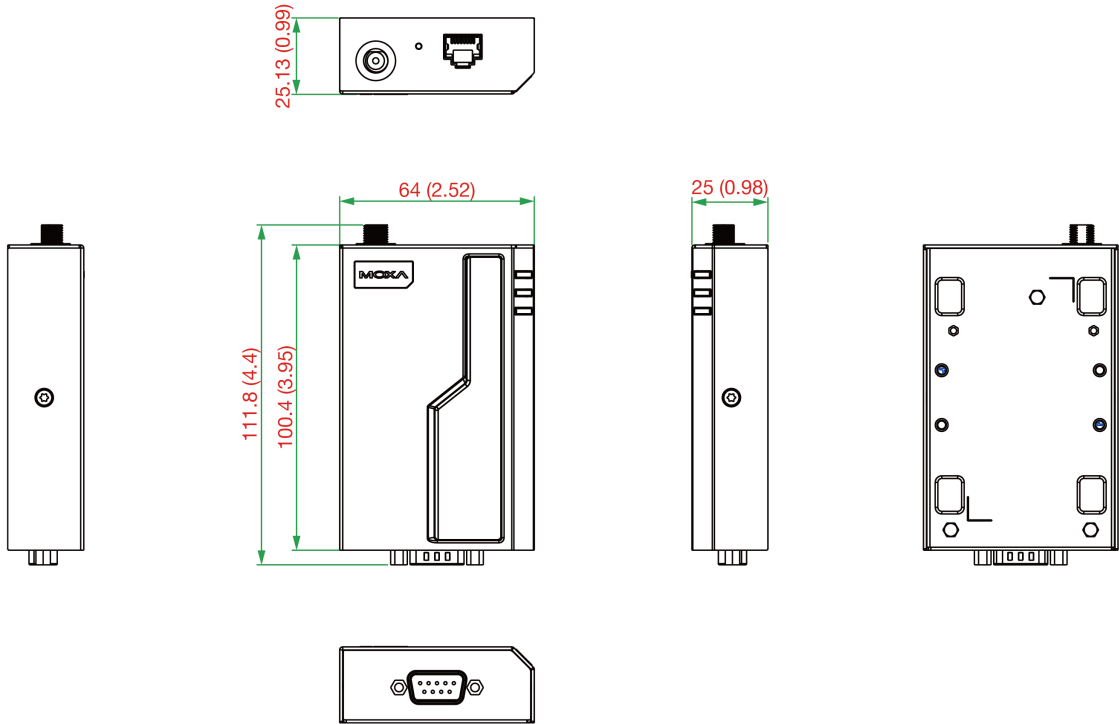
Package Contents

Device	1 x NPort 6100-G2/6200-G2 Series terminal server
Power Supply	1 x power adapter, suitable for your region (except for -T models)
Installation Kit	1 x wall-mounting kit (WK-32-01)
Documentation	1 x quick installation guide 1 x warranty card

尺寸

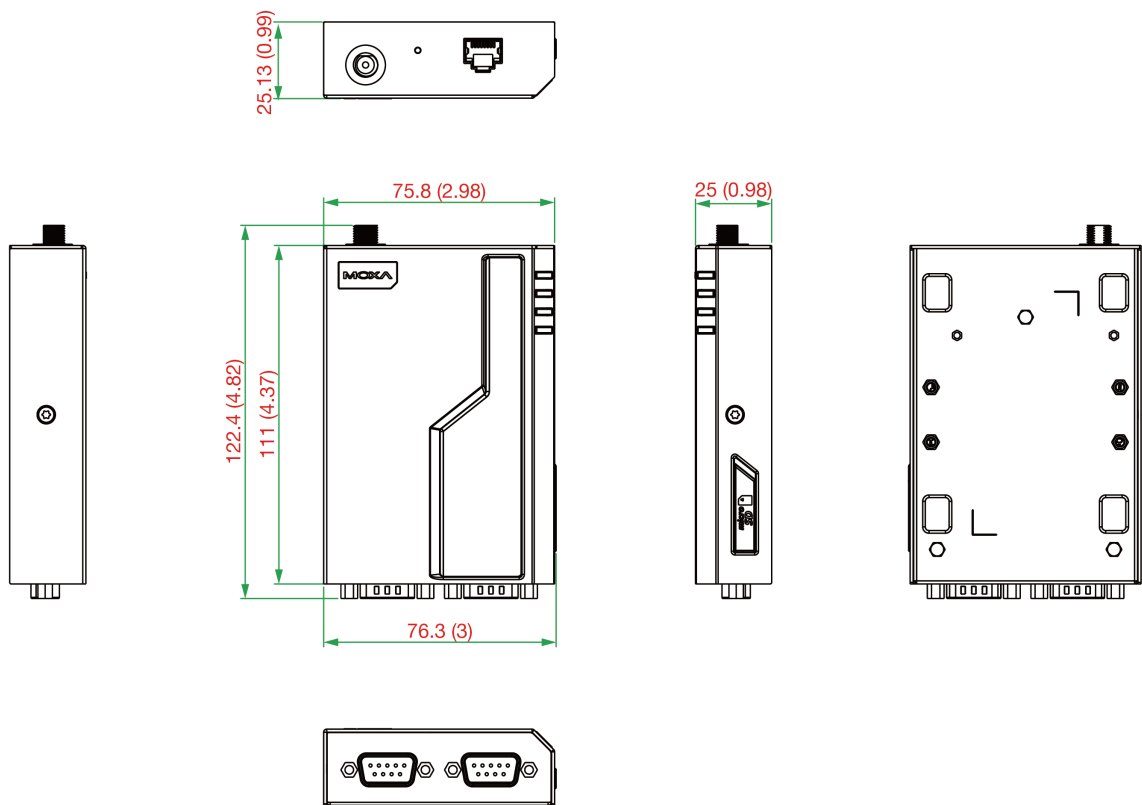
NPort 6150-G2 型號

單位：公釐（英吋）



NPort 6250-G2 型號

單位：公釐（英吋）



訂購資訊

Model Name	Ethernet Interface	No. of Serial Ports	SD Card Support	Operating Temp.	Power Supply Included
NPort 6150-G2	RJ45	1	–	-10 to 60°C	√
NPort 6150-G2-T	RJ45	1	–	-40 to 75°C	–
NPort 6250-G2	RJ45	2	Up to 2 TB (high speed, 25 Mbps)	-10 to 60°C	√
NPort 6250-G2-T	RJ45	2	Up to 2 TB (high speed, 25 Mbps)	-40 to 75°C	–

配件（選購）

Cables

CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m

Connectors

ADP-RJ458P-DB9F	DB9 female to RJ45 connector
Mini DB9F-to-TB	DB9 female to terminal block connector
LB-DB9F-G-01	Serial loopback DB9 adaptor

DIN-Rail Mounting Kits

DK-115-01	DIN-rail mounting kit with 2 plates (89 x 19 mm), 3 M3 x 5 mm screws and SK-115-01 side-mounting kit
DK-43-01	DIN-rail mounting kit with 2 plates (42.5 x 19.3 mm), 4 M3 x 6 mm screws (black)

Wall-Mounting Kits

WK-32-01	Wall-mounting kit with 2 plates (32 x 29.5 mm), 4 M3 x 6 mm screws
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Side-mounting Kits

SK-115-01	Side-mounting kit with T-shaped mounting bracket (81.2 x 115.0 mm), 4 M3 x 6 mm screws
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Power Cords

CBL-PJ21NOPEN-BK-30 w/Nut	CBL-PJ21NOPEN-BK-30 w/Nut
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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-KR-S1	Locking barrel plug, 12 VDC, 0.5 A, 100 to 240 VAC, KR 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-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature
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
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
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
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

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