

NPort 5600-DT-G2 系列

8/16 埠 RS-232/422/485 精巧桌上型電腦串列設備伺服器



特色與優點

- 10/100/1000M 自動感應乙太網路
- 小巧的桌上型設計：提供 8 埠和 16 埠纖薄型號
- 一鍵式日誌收集與應用程式分析，可輕鬆進行故障排除
- 支援多種安全作業模式的資料加密，包括 Real COM、TCP Server、TCP Client、Pair Connection、Terminal 與 Reverse Terminal
- Secure Boot 僅允許在裝置上執行經 Moxa 授權的韌體
- 支援 RSA-4096 和 ECC-521 簽署的 SSL 憑證

認證



簡介

NPort 5600-DT-G2 設備伺服器可以藉由方便且透通的方式將多達 16 台串列設備連接到乙太網路，僅需透過基本配置將現有的串列設備連上乙太網路。使用者不僅可集中管理所有串列設備，亦可透過網路分散部署管理主機，提升系統架構彈性。相較於其他設備伺服器，NPort 5600-DT-G2 採用更為精巧纖薄的外型設計，特別適用於需要擴充串列埠但無法安裝 DIN 導軌的應用環境。此外，本產品內建一鍵式日誌收集與一鍵式應用程式分析工具，可大幅簡化故障排除流程。

安全資料傳輸

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。為此，NPort 5600-DT-G2 支援 TLS 與 SSH 通訊協定，可在資料傳輸前進行加密，確保資料在網路傳輸過程中的安全性。使用 NPort 5600-DT-G2，使用者就可放心在私有或公用網路上安全地傳送串列資料。

一鍵式日誌與應用程式分析，可輕鬆進行故障排除

在部署階段，系統異常往往需仰賴設備廠商支援，而傳統流程常因資訊收集與溝通耗時而延誤處理。NPort 5600-DT-G2 內建一鍵式應用程式分析工具，可快速提供完整診斷資料，協助技術支援團隊即時定位並排除問題。

在系統維運階段，當發生異常時，往往需要設備廠商支援，而傳統流程常因資料蒐集與內部溝通耗時而延誤處理。NPort 5600-DT-G2 內建一鍵式日誌收集功能，可快速匯出完整診斷資訊，協助技術支援團隊即時定位問題並加速排除。

規格

Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	2 Auto MDI/MDI-X connection
Magnetic Isolation Protection	1.5 kV (built-in)

Ethernet Software Features

Configuration Options	Web Console (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

Security Functions

Root of Trust	Secure Boot True Random Number Generator (TRNG)
Authentication	Local database (RBAC support)
Encryption	HTTPS: ECC-256, ECC-384, ECC-521, RSA-1024, RSA-2048, RSA-3072, RSA-4096, AES-128, AES-256, CHACHA20, SHA-256, SHA-384, HMAC SNMPv3: AES-128, SHA-256, SHA-384 Secure OP mode: HTTPS: ECC-256, ECC-384, ECC-521, RSA-1024, RSA-2048, RSA-3072, RSA-4096, AES-128, AES-256, CHACHA20, SHA-256, SHA-384, HMAC Config Import/Export: AES-256, SHA-256, HMAC
Security Protocols	HTTPS (TLS 1.2) SNMPv3

Serial Interface

Connector	NPort 5600-8-DT-G2 models: DB9 male NPort 5600-16-DT-J-G2 models: 8-pin RJ45 NPort 5600-8-DTS-J-G2 models: 10-pin RJ50
No. of Ports	NPort 5600-8-DT-G2/5600-8-DTS-J-G2 models: 8 NPort 5600-16-DT-G2 models: 16
Serial Standards	NPort 5610-DT-G2/5610-DTS-G2 models: RS-232 NPort 5650-DT-G2/5650-DTS-G2 models: RS-232, RS-422, RS-485
Secure Operation Modes	Secure Pair Connection Secure Real COM Secure TCP Client Secure TCP Server
Standard Operation Modes	Disabled Pair Connection Real COM RFC2217 TCP Client TCP Server UDP

Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None RTS/CTS DTR/DSR XON/XOFF
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

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

No. of Power Inputs	1
Input Current	800 mA (max.)
Input Voltage	12 to 48 VDC
Reverse Polarity Protection	Supported
Source of Input Power	Terminal block

Reliability

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

Physical Characteristics

Housing	Metal
Dimensions (without ears)	NPort 5600-DT-G2 models: 197 x 125 x 44 mm (7.76 x 4.92 x 1.73 in) NPort 5600-DTS-G2 models: 210 x 95 x 25 mm (8.27 x 3.74 x 0.98 in)
Weight	NPort 5600-8-DT-G2 models: 880 g (1.94 lbs) NPort 5600-16-DT-J-G2 models: 875 g (1.93 lbs) NPort 5600-8-DTS-J-G2 models: 610 g (1.34 lbs)
Installation	Desktop Wall mounting DIN-rail mounting (with optional kit)

Environmental Limits

Operating Temperature	Standard models: -10 to 60°C (14 to 140°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: 6 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: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 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
Safety	IEC 62368-1 UL 62368-1 EN 62368-1
Vibration	IEC 60068-2-6
Package Drop Test	ISTA 1A

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	NPort 5610-8-DT-G2: 29,666 hrs NPort 5610-8-DT-G2-T: 2,729,079 hrs NPort 5650-8-DT-G2: 29,612 hrs NPort 5650-8-DT-G2-T: 2,339,917 hrs NPort 5650I-8-DT-G2: 29,543 hrs NPort 5650I-8-DT-G2-T: 1,971,992 hrs NPort 5610-16-DT-J-G2 models: 2,043,468 hrs NPort 5650-16-DT-J-G2 models: 1,638,263 hrs NPort 5610-8-DTS-J-G2 models: 3,499,034 hrs NPort 5650-8-DTS-J-G2 models: 2,883,685 hrs
Standards	Telcordia Standard SR-332 Telcordia SR-332 Issue 4

Warranty

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

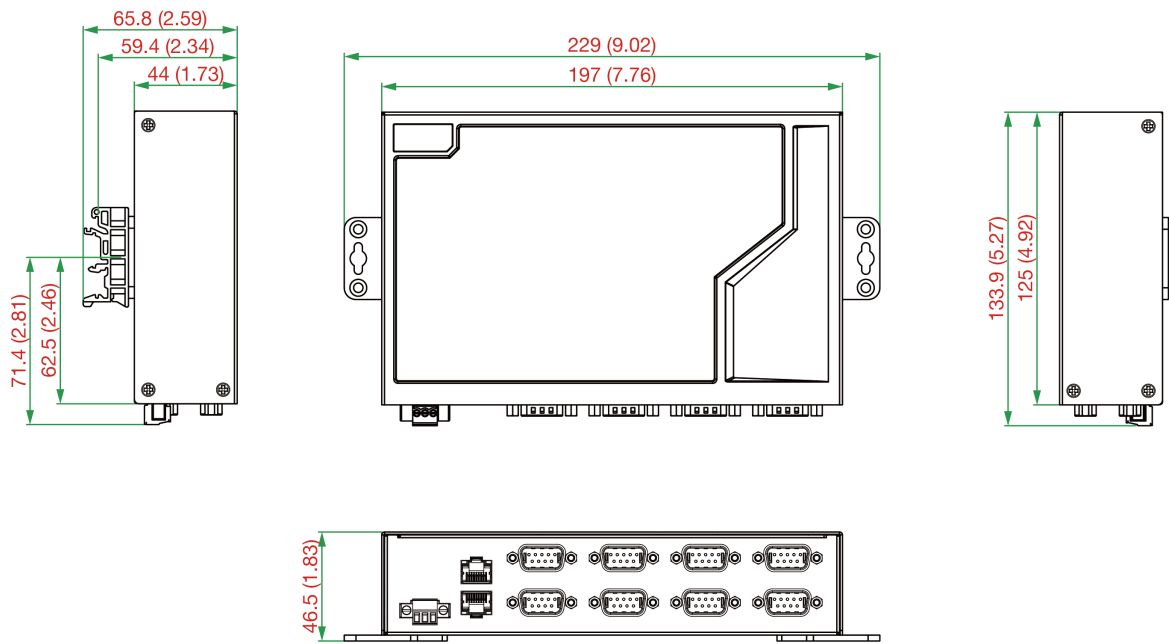
Package Contents

Device	1 x NPort 5600-DT-G2 Series device server
Installation Kit	1 x wall-mounting kit
Documentation	1 x quick installation guide

尺寸

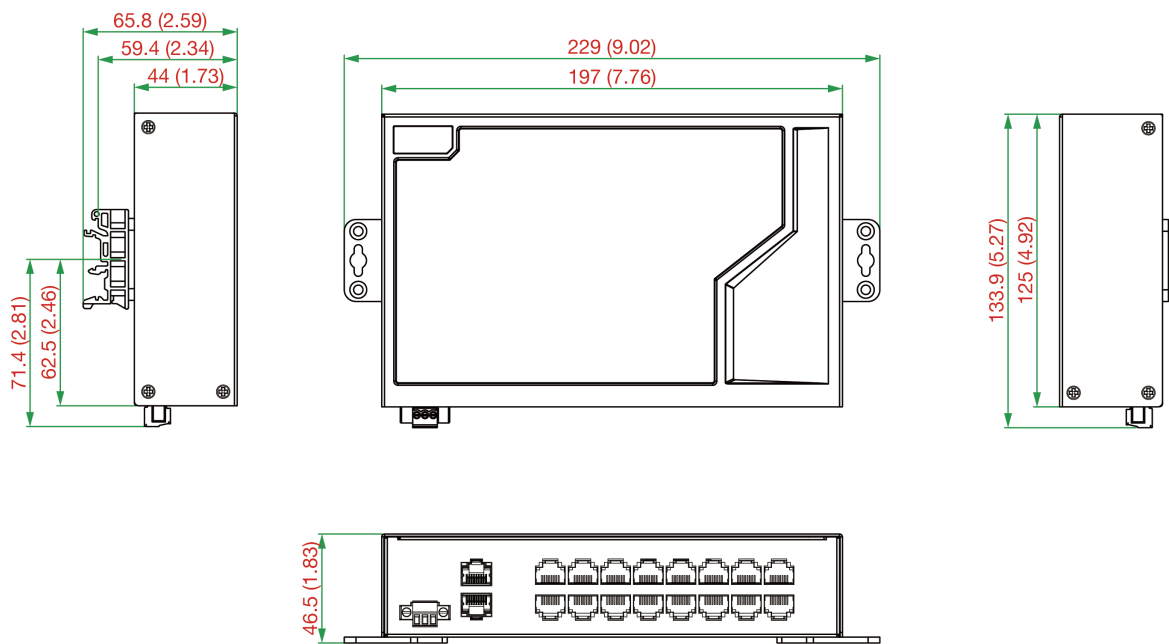
NPort 5600-8-DT-G2 型號

單位：公釐（英吋）



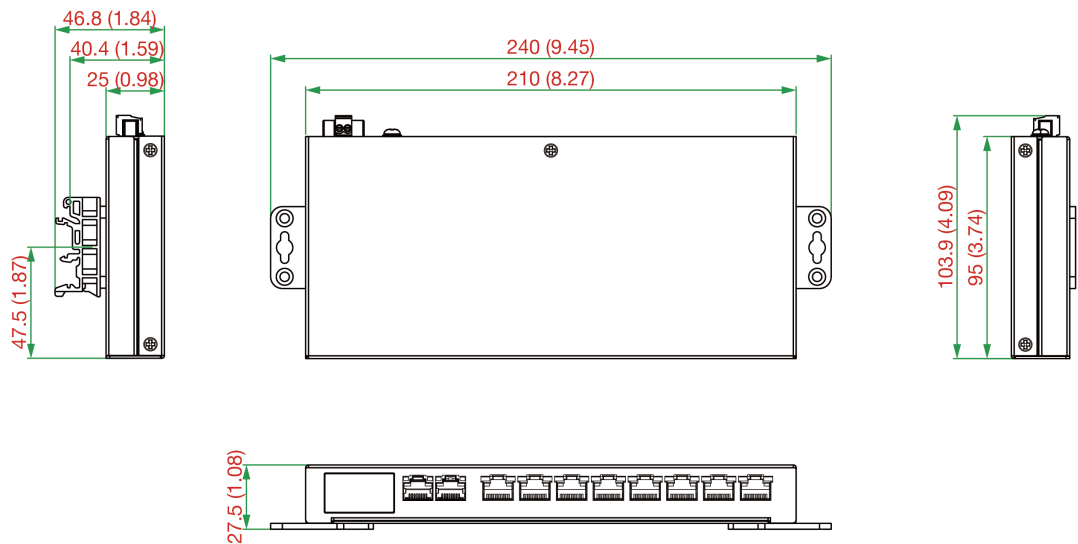
NPort 5600-16-DT-J-G2 型號

單位：公釐（英吋）



NPort 5600-8-DTS-J-G2 型號

單位：公釐（英吋）



訂購資訊

Model Name	Ethernet Interface	No. of Serial Ports	Serial Standards	Serial Interface Connector	Serial Interface Isolation	Operating Temp.
NPort 5610-8-DT-G2	2 x 10/100/1000M RJ45	8	RS-232	DB9 Male	–	-10 to 60°C
NPort 5610-8-DT-G2-T	2 x 10/100/1000M RJ45	8	RS-232	DB9 Male	–	-40 to 75°C
NPort 5650-8-DT-G2	2 x 10/100/1000M RJ45	8	RS-232/422/485	DB9 Male	–	-10 to 60°C
NPort 5650-8-DT-G2-T	2 x 10/100/1000M RJ45	8	RS-232/422/485	DB9 Male	–	-40 to 75°C
NPort 5650I-8-DT-G2	2 x 10/100/1000M RJ45	8	RS-232/422/485	DB9 Male	2 kV	-10 to 60°C
NPort 5650I-8-DT-G2-T	2 x 10/100/1000M RJ45	8	RS-232/422/485	DB9 Male	2 kV	-40 to 75°C
NPort 5610-16-DT-J-G2	2 x 10/100/1000M RJ45	16	RS-232	8-pin RJ45	–	-10 to 60°C
NPort 5610-16-DT-J-G2-T	2 x 10/100/1000M RJ45	16	RS-232	8-pin RJ45	–	-40 to 75°C
NPort 5650-16-DT-J-G2	2 x 10/100/1000M RJ45	16	RS-232/422/485	8-pin RJ45	–	-10 to 60°C
NPort 5650-16-DT-J-G2-T	2 x 10/100/1000M RJ45	16	RS-232/422/485	8-pin RJ45	–	-40 to 75°C
NPort 5610-8-DTS-J-G2	2 x 10/100/1000M RJ45	8	RS-232	10-pin RJ50	–	-10 to 60°C
NPort 5610-8-DTS-J-G2-T	2 x 10/100/1000M RJ45	8	RS-232	10-pin RJ50	–	-40 to 75°C
NPort 5650-8-DTS-J-G2	2 x 10/100/1000M RJ45	8	RS-232/422/485	10-pin RJ50	–	-10 to 60°C
NPort 5650-8-DTS-J-G2-T	2 x 10/100/1000M RJ45	8	RS-232/422/485	10-pin RJ50	–	-40 to 75°C

配件（選購）

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
CBL-RJ45F25-150	8-pin RJ45 to DB25 female serial cable, 1.5 m
CBL-RJ45F9-150	8-pin RJ45 to DB9 female serial cable, 1.5m
CBL-RJ45M25-150	8-pin RJ45 to DB25 male serial cable, 1.5m
CBL-RJ45M9-150	8-pin RJ45 to DB9 male serial cable, 1.5m
CBL-RJ45SF25-150	8-pin RJ45 to DB25 female serial cable with shielding, 1.5m

CBL-RJ45SF9-150	8-pin RJ45 to DB9 female serial cable with shielding, 1.5m
CBL-RJ45SM25-150	8-pin RJ45 to DB25 male serial cable with shielding, 1.5m
CBL-RJ45SM9-150	8-pin RJ45 to DB9 male serial cable with shielding, 1.5m
CN20070	10-pin RJ50 to DB9 female serial cable

Connectors

A-ADP-RJ458P-DB9F-ABC01	DB9 female to RJ45 connector for the ABC-01 Series
Mini DB9F-to-TB	DB9 female to terminal block connector
LB-DB9F-G-01	Serial loopback DB9 adaptor
LB-RJ5010P-G-01	Serial loopback 10-pin RJ50 adapter
LB-RJ458P-G-01	Serial loopback 8-pin RJ45 adapter

DIN-Rail Mounting Kits

DK-43-01	DIN-rail mounting kit with 2 plates (42.5 x 19.3 mm), 4 M3 x 6 mm screws, black, works with the wall-mounting kit of your product
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Wall-Mounting Kits

WK-44-04	Wall-mounting kit with 2 plates (35 x 44 x 2.5 mm), 6 screws (M3 x 5 mm)
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Power Cords

CBL-PJTB-10	Non-locking barrel plug to bare-wire cable
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