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
- 精巧的桌上型設計：提供 8 埠 DTS 版和 16 埠纖薄版型號
- 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 與 ECC-521 SSL 憑證簽章
- 符合 IEC 62443-4-2 安全等級 2 的要求

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，僅需透過基本配置即可將現有的串列設備連上乙太網路。您可以集中管理串列設備連上乙太網路，也可以透過網路分散式管理。由於 NPort 5600-DT-G2 設備伺服器的外型比我們的其他設備伺服器還要纖薄，因此非常適合需要增加串列埠、但無法安裝 DIN 軌道的應用環境。此外，設備伺服器具備一鍵式記錄收集功能和一鍵應用程式分析器，便於進行故障排除。

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 安全終端伺服器支援 TLS 與 SSH 通訊協定，這些通訊協定會在透過網路傳送資料之前先將資料進行加密。使用 NPort®5600-DT-G2，您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，系統整合商必須完成設備連線並確認通訊運作正常，但仍可能遇到各種通訊問題，因此需要適當的工具協助進行故障排除。Moxa 提供一鍵式應用程式分析功能，只需按一下即可產生分析報告，協助系統整合商快速找出潛在問題，並了解對應的解決方式。

在維護階段，系統發生異常時往往需要尋求設備廠商協助。傳統故障排除流程通常需耗費大量時間收集資訊，並與技術支援團隊反覆溝通。NPort® 5600-DT-G2 內建一鍵式日誌收集功能，可快速提供技術支援團隊進行系統診斷所需的完整資訊，大幅縮短故障排除時間。

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
Bitrate	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)
Weight (including package)	NPort 5600-8-DT-G2 models: 1,315 g (2.90 lbs) NPort 5600-16-DT-J-G2 models: 1,285 g (2.83 lbs) NPort 5600-8-DTS-J-G2 models: 925 g (2.04 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

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 Standard Issue 4

Warranty

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

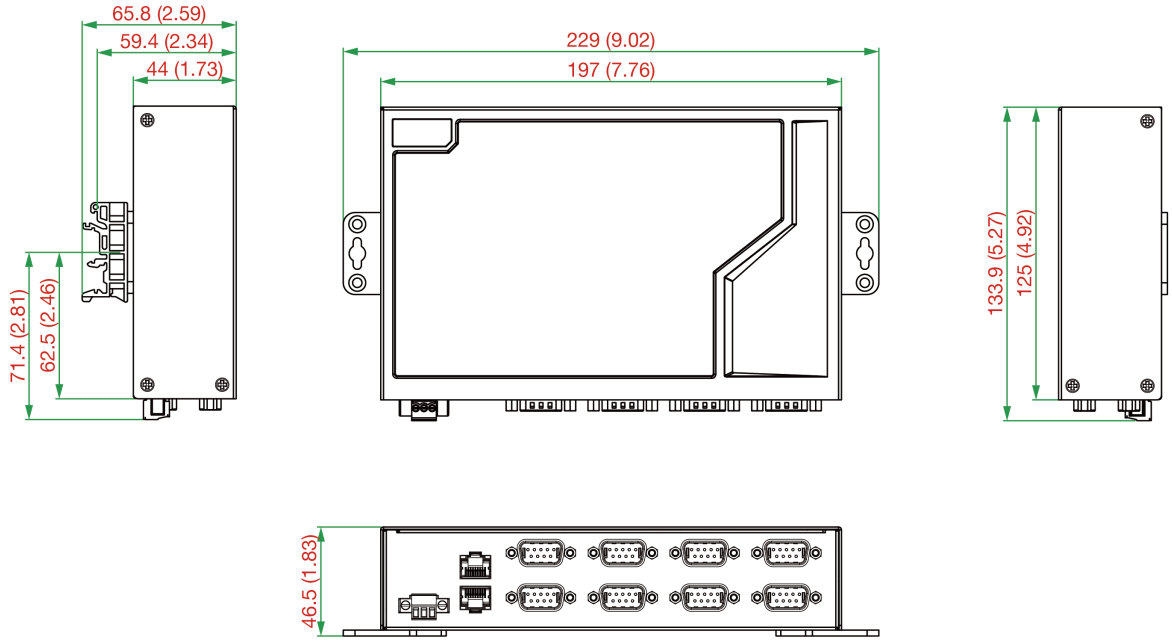
Package Contents

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

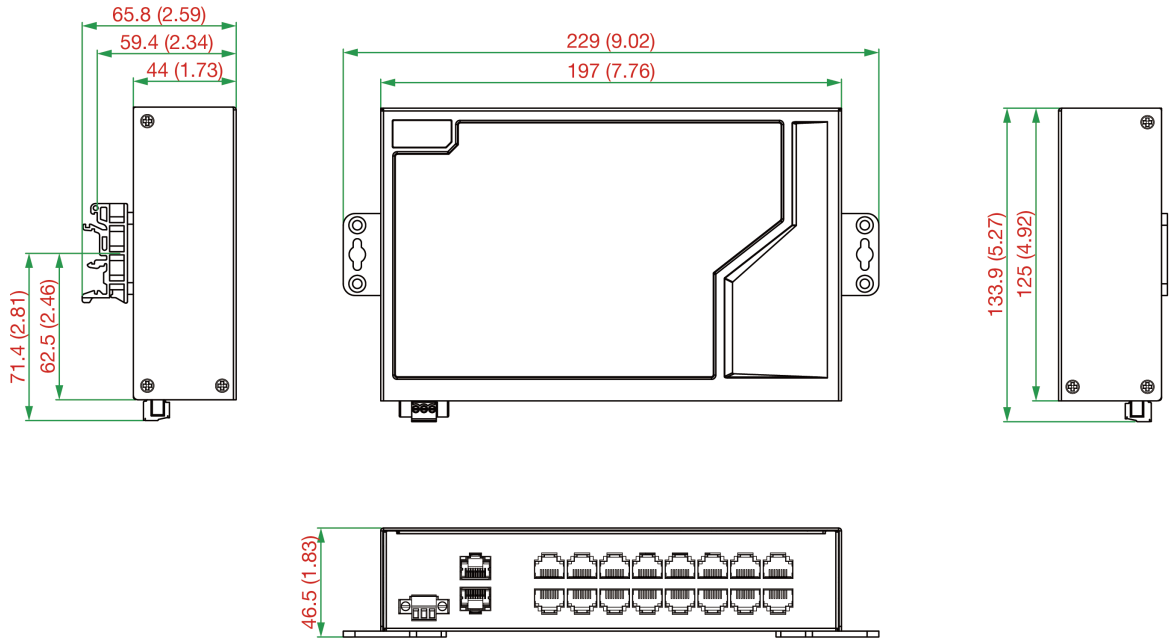
NPort 5600-8-DT-G2 型號

單位：公釐（英吋）



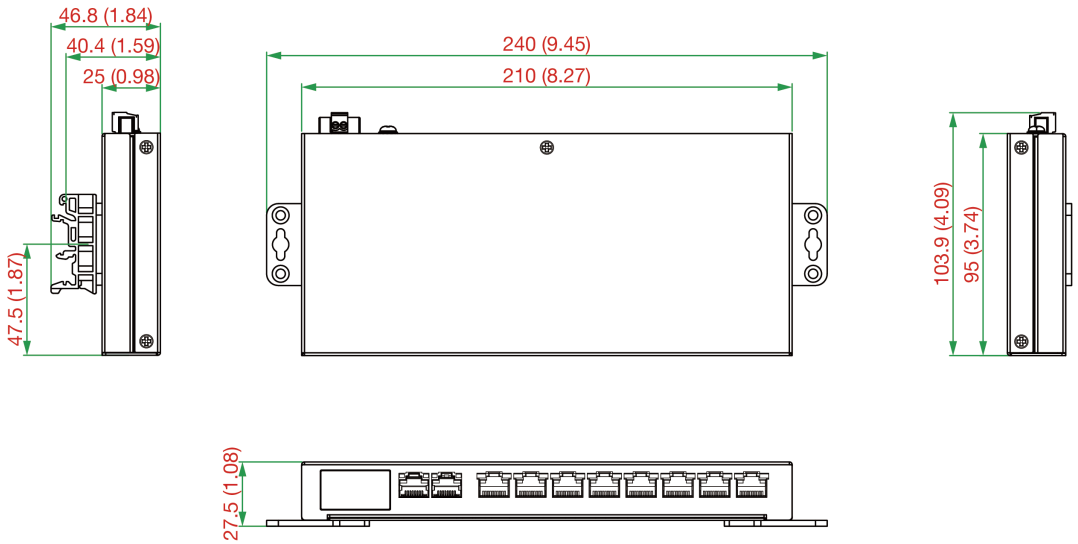
NPort 5600-16-DT-J-G2 型號

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

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)

Power Cords

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

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