

# NPort 5600-DT-G2 Series

8/16-port RS-232/422/485 compact desktop serial device servers



### Features and Benefits

- 10/100/1000M auto-sensing Ethernet
- Compact desktop design: 8-port DTS and 16-port slim models available
- One-click log collection and application analysis for easy troubleshooting
- Data encryption with secure operation modes for Real COM, TCP Server, TCP Client, Pair Connection, Terminal, and Reverse Terminal
- Secure Boot only allows Moxa-authorized firmware to run on devices
- Supports SSL certificate signing by RSA-4096 and ECC-521

### Certifications



## Introduction

NPort 5600-8-DT-G2 device servers can conveniently and transparently connect up to 16 serial devices to an Ethernet network, allowing you to network your existing serial devices with only basic configuration. You can both centralize management of your serial devices and distribute management hosts over the network. Since the NPort 5600-8-DT-G2 device servers have a slim form factor compared to our other device servers, they are a great choice for applications that need additional serial ports, but for which mounting rails are not available. The device servers also come with one-click log collection and one-click application analyzer for easy troubleshooting.

### Secure Data Transmission

For many applications, guaranteeing secure data transmission is an important concern when connecting serial devices to a network. To answer this concern, the NPort@5600-DT-G2 secure terminal servers support the TLS and SSH protocols, which work by encrypting data before sending it over the network. With the NPort@5600-DT-G2, you can be rest assured that serial data is transmitted securely over both private and public networks.

### One-click Logs and Application Analysis for Easy Troubleshooting

During the deployment stage, system integrators must connect devices and ensure the communication is smooth. They may encounter issues and will require tools to troubleshoot issues. Moxa provides an application analyzer that generates a report at the click of a button to help the system integrator easily identify potential issues and understand how to resolve them.

At the maintenance stage, system errors may require you to call for help. Device vendors might take a long time to troubleshoot issues because they need to collect information and then hold discussions with the technical support team. The NPort@5600-DT-G2 comes with a one-click log collection function, which can provide all the data that a technical support team needs to quickly troubleshoot system issues.

## Specifications

### Ethernet Interface

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

### Ethernet Software Features

|                       |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| Configuration Options | Web Console (HTTPS)<br>Windows Utility<br>Device Search Utility (DSU)<br>MCC Tool<br>Serial Console |
| Management            | ARP<br>DHCP Client<br>DNS                                                                           |

|                             |                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | HTTPS<br>ICMP<br>IPv4/IPv6<br>SMTP<br>SMTPS<br>SNMPv1/v2c/v3<br>SNTP<br>TCP/IP<br>UDP<br>WINS                                                                                   |
| Windows Real COM Drivers    | Windows 11, 10, 8.1, 8, and 7<br>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<br>Linux Kernel 6.x, 5.x and 4.x<br>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<br>(Windows on macOS 14, 13, 12, and 11)<br>Parallels Desktop (Windows on macOS 14, 13, 12, and 11) |
| Time Management             | SNTP Client                                                                                                                                                                     |
| MIB                         | MIB-II<br>RFC1213, RFC1317<br>Private MIB                                                                                                                                       |

## Security Functions

|                    |                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Root of Trust      | Secure Boot<br>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,<br>AES-128, AES-256, CHACHA20, SHA-256, SHA-384, HMAC<br>SNMPv3: AES-128, SHA-256, SHA-384<br>Secure OP mode: HTTPS: ECC-256, ECC-384, ECC-521, RSA-1024, RSA-2048, RSA-<br>3072, RSA-4096, AES-128, AES-256, CHACHA20, SHA-256, SHA-384, HMAC<br>Config Import/Export: AES-256, SHA-256, HMAC |
| Security Protocols | HTTPS (TLS 1.2)<br>SNMPv3                                                                                                                                                                                                                                                                                                                                                |

## Serial Interface

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Connector                | NPort 5600-8-DT-G2 models: DB9 male<br>NPort 5600-16-DT-J-G2 models: 8-pin RJ45<br>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<br>NPort 5600-16-DT-G2 models: 16                                               |
| Serial Standards         | NPort 5610-DT-G2/5610-DTS-G2 models: RS-232<br>NPort 5650-DT-G2/5650-DTS-G2 models: RS-232, RS-422, RS-485                   |
| Secure Operation Modes   | Secure Pair Connection<br>Secure Real COM<br>Secure TCP Client<br>Secure TCP Server                                          |
| Standard Operation Modes | Disabled<br>Pair Connection<br>Real COM<br>RFC2217<br>TCP Client                                                             |

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
|                                   | TCP Server<br>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<br>RTS/CTS<br>DTR/DSR<br>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)<br>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)<br>NPort 5600-16-DT-J-G2 models: 875 g (1.93 lbs)<br>NPort 5600-8-DTS-J-G2 models: 610 g (1.34 lbs) |
| Installation              | Desktop<br>Wall mounting<br>DIN-rail mounting (with optional kit)                                                                               |

## Environmental Limits

|                                        |                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------|
| Operating Temperature                  | Standard models: -10 to 60°C (14 to 140°F)<br>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<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 0.5 kV<br>IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 kV<br>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m<br>IEC 61000-4-8 PFMF<br>IEC 61000-4-11 |
| Safety            | IEC 62368-1<br>UL 62368-1<br>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<br>NPort 5610-8-DT-G2-T: 2,729,079 hrs<br>NPort 5650-8-DT-G2: 29,612 hrs<br>NPort 5650-8-DT-G2-T: 2,339,917 hrs<br>NPort 5650I-8-DT-G2: 29,543 hrs<br>NPort 5650I-8-DT-G2-T: 1,971,992 hrs<br>NPort 5610-16-DT-J-G2 models: 2,043,468 hrs<br>NPort 5650-16-DT-J-G2 models: 1,638,263 hrs<br>NPort 5610-8-DTS-J-G2 models: 3,499,034 hrs<br>NPort 5650-8-DTS-J-G2 models: 2,883,685 hrs |
| Standards | Telcordia Standard SR-332<br>Telcordia SR-332 Issue 4                                                                                                                                                                                                                                                                                                                                                                 |

## Warranty

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| Warranty Period | 5 years                                                              |
| Details         | See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> |

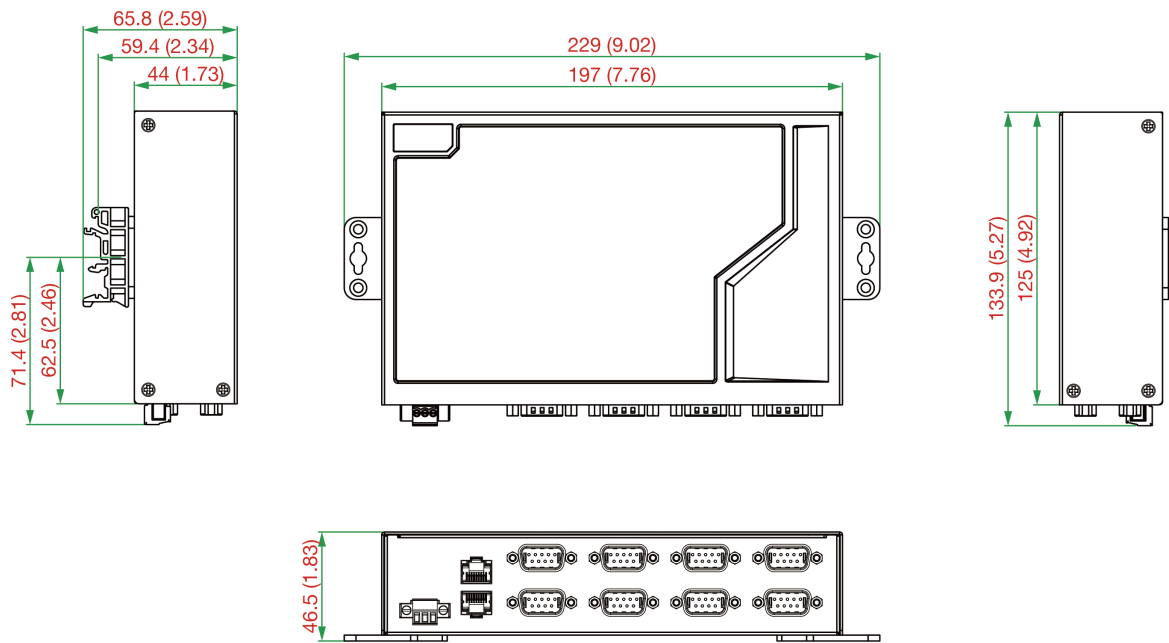
## Package Contents

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

Dimensions

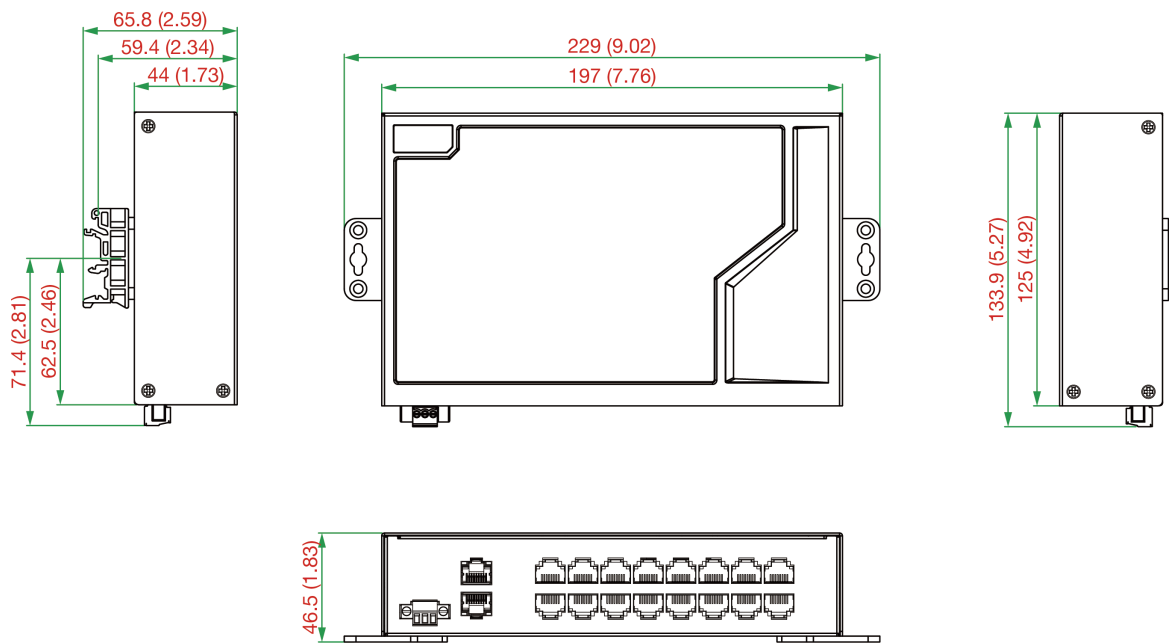
NPort 5600-8-DT-G2 Models

Unit: mm (inch)



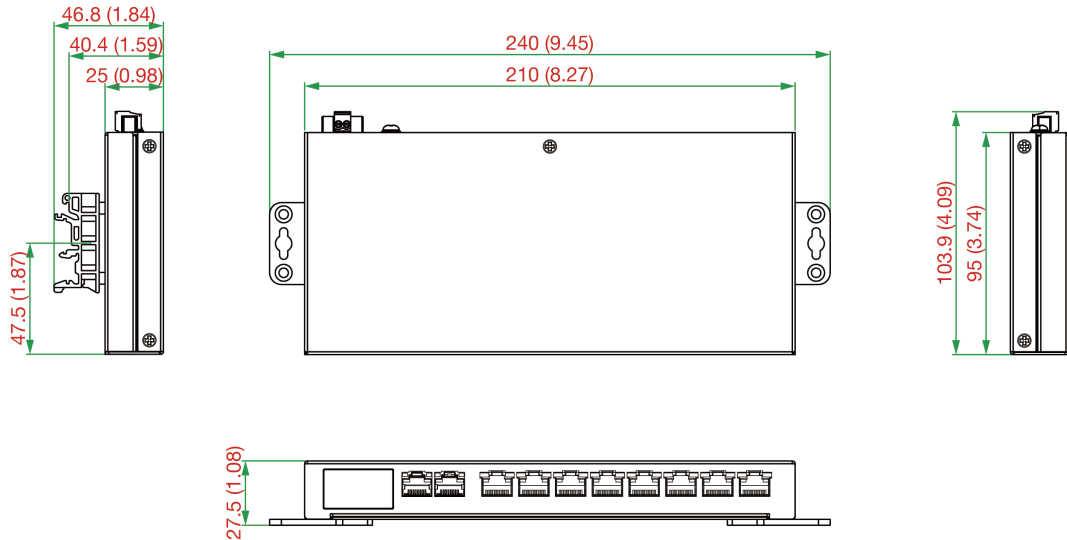
NPort 5600-16-DT-J-G2 Models

Unit: mm (inch)



## NPort 5600-8-DTS-J-G2 Models

Unit: mm (inch)



## Ordering Information

| 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     |

## 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                  |
| 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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