

NPort 6600-G2 Series

Quick Installation Guide

Version 1.0, July 2025

Technical Support Contact Information
www.moxa.com/support



© 2025 Moxa Inc. All rights reserved.

P/N: 1802066000010



Package Checklist

- NPort 6600-G2 device server
- 1 power cord (does not apply to -T models)
- 2 rack-mounting ears
- Quick installation guide (this guide)

NOTE Notify your sales representative if any of the above items are missing or damaged.

For optional accessories, like connecting cables or loopback adapters, refer to the Accessories section in the datasheet.

For the NPort 6600-48V-G2 to comply with NEMA TS2, order the DIN-rail power supply NDR-120-48.

NOTE The NPort 6600-48V-G2 models are intended to be supplied by an external power source (UL Listed/IEC 62368-1/EN 62368-1)/BSMI), of which the output complies with ES1/PS2/SELV/LPS.

The output rating is rated at 48 VDC and supports a minimum current of 340 mA and an ambient temperature 60°C min.

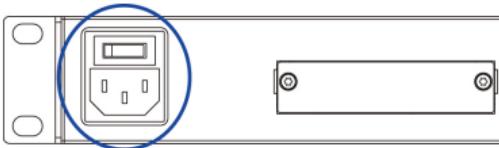
When using a Class I external power source, the power cord should be connected to an outlet with an earthing connection.

If the operation altitude is over 2,000 m, select a proper external power source to comply with the product up to 4,000 m.

Powering the Device

Unbox the device server and power it up using the power cord provided in the box. The location of the power supply outlet on the device server is shown in the following figures:

NPort 6600-G2



When you are using a DIN-rail power supply or utility power, ensure that the ground pin is properly connected. Connect the ground pin to the chassis ground of the rack or system.

After powering up the device, the Ready LED should turn red first. After a couple of seconds, the Ready LED should turn solid green and you should hear a beep, indicating that the device is ready. For detailed behavior of the LED indicators, see the *LED Indicators* section.

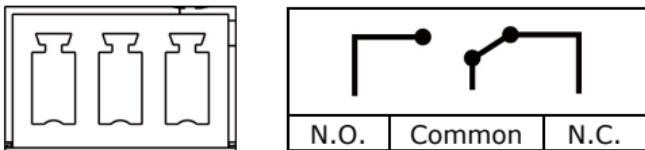
LED Indicators

LED	Color	LED Function	
PWR1, PWR2	Green	Steady	Power is on.
		Off	Power is off.
Ready	Red	Steady	Power is on and the NPort is booting up.
		Blinking	Shows an IP conflict or the DHCP server did not respond properly, a relay output occurred, or the user pushed the reset button.
	Green	Steady	Power is on and the NPort is functioning normally.
		Blinking	The device server has been located by the Administrator's location function.
	Red + Green (Amber)	Steady	After pushing the reset button for over five seconds, it shows the user can release the button and the device will restart with default settings.
	Off	Power is off, or a power error condition exists.	
LAN1, LAN2	Green	Steady on	The Ethernet cable is connected, and the NPort detects it's linked up.
		Blinking	Indicates there is traffic on the Ethernet port.
	Off	The Ethernet cable is disconnected, or the NPort detects the link is down.	

LED	Color	LED Function	
Module LAN1 (M-LAN1), Module LAN2 (M-LAN2)	Green	Steady on	The Ethernet cable is connected, and the NPort detects it's linked up.
		Blinking	Indicates there is traffic on the Ethernet port.
		The Ethernet cable is disconnected, or the NPort detects its link is down.	
P1-P32	Yellow	Serial port is receiving data.	
	Green	Serial port is transmitting data.	
	Off	No data is being transmitted or received through the serial port.	

When the device is ready, connect an Ethernet cable to the NPort 6000-G2 directly with the computer's Ethernet port or an Ethernet port of a switch.

Relay



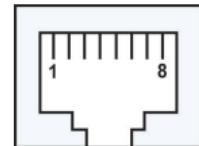
The resistive load of the alarm contact channels: 1 A @ 24 VDC.

When wiring the relay contact (R), we suggest using American Wire Gauge (AWG) 16 to 20 as a cable and the corresponding pin-type cable terminals. The stripping length is recommended to be 8 to 9 mm. The wire temperature rating should be at least 85°C. Use copper conductors and one conductor in one damping point on the terminal block only.

Serial Ports

The NPort 6600-G2 models come with 8-pin RJ45 serial ports with RS-232/422/485 support. Refer to the following table for the DB9 connector pin assignments. The pin assignments of the RJ45 serial ports are as follows:

Pin	RS-232	RS-422 4-wire RS-485	2-wire RS-485
1	DSR	-	-
2	RTS	TxD+(B)	-
3	GND	GND	GND
4	TxD	TxD-(A)	-
5	RxD	RxD+(B)	Data+(B)
6	DCD	RxD-(A)	Data-(A)
7	CTS	-	-
8	DTR	-	-



You can purchase serial cables for connecting the NPort 6000-G2 to a serial device separately.

Software Installation

There are two methods to start the configuration of the NPort 6000-G2 Series. The first way is to download the Device Search Utility from Moxa website and the Device Search Utility will help you find the target NPort device server and set the username/password and the IP address. For more details, scan the QR Code. A video will guide you through the basic settings with Device Search Utility. You can also access the video via [Link to the video](#).



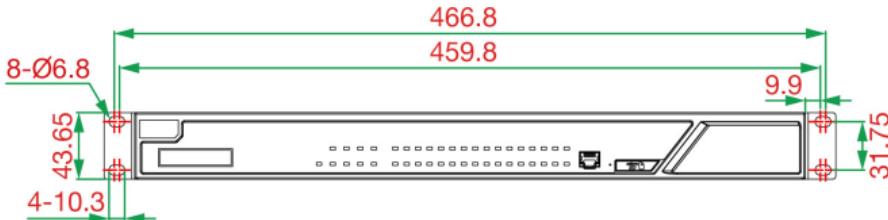
Second, you can directly access the default IP address of the NPort: **https://192.168.127.254**. There is no default username or password. You will need to complete the following first-login process as part of the basic settings.

1. Set up the first Administrator's account and password for your NPort.
2. If you have exported configuration files from a NPort 6400 model, import the configuration file to complete the settings.
If this is your first time using a NPort, skip this step.
3. Configure the IP address, subnet mask, and network settings for the NPort.
4. After applying the settings, the NPort will reboot.
Log in using the Administrator's account and password that you set up in step 1.

Mounting Options

The NPort 6600-G2 can be placed flat on a desktop or other horizontal surface, and it also includes a rack-mounting kit in the box, which can be used to mount the NPort to a rack.

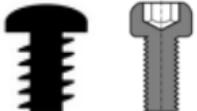
NPort 6600-G2 安全終端伺服器可平放於桌面等平面，同時亦內附機架式安裝配件以安裝在現場的機架上，下以圖示說明安裝方法與注意事項。



For attaching the device server to a rack, it requires four screws. We recommend using M6 screws. The heads of the screws must be 9.8 to 12.0 mm in diameter, and the length of the screws should be over 6 mm.

當要將設備設備鎖附至機架時，會需要另外採購四根螺絲，
建議螺絲的規格符合以下尺寸：

- 螺絲頭的直徑應在 9.8 至 12.0 mm 之間
- 螺絲長度應長於 6 mm



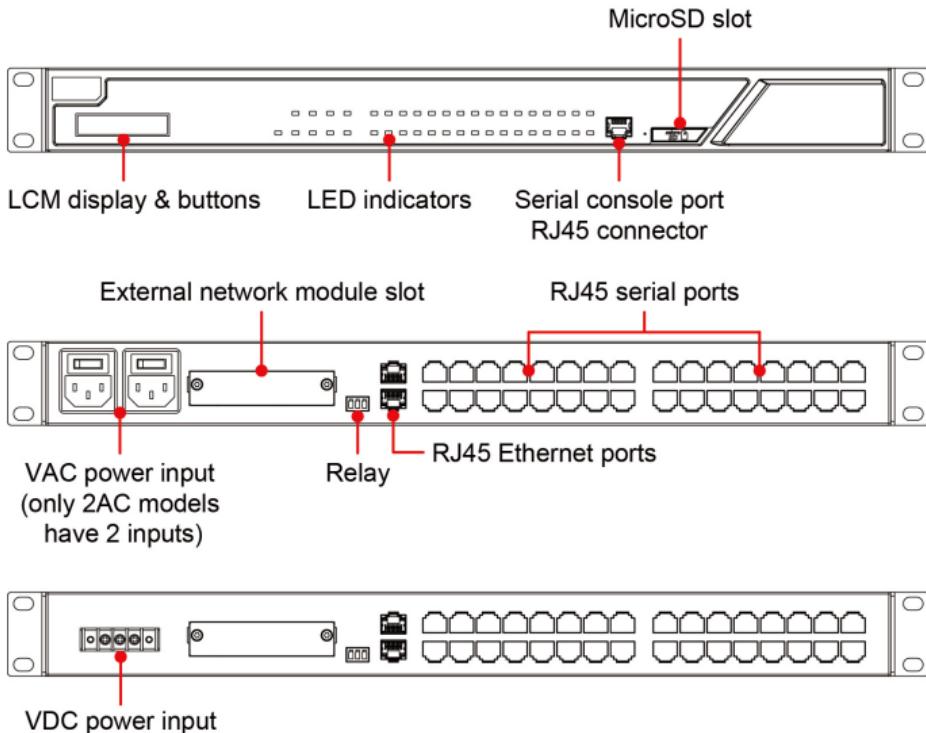
The mounting kit packages include screws. However, if you prefer to buy your own, refer to the dimensions below:

- **Rack-mounting kit screws: FMS M3 x 8 mm**

以上各式安裝配件都會包含對應的螺絲，若您偏好自己採購螺絲，以下為我們建議的螺絲尺寸：

- **機架式安裝螺絲尺寸: FMS M3 x 8 mm**

The I/O Ports and Interfaces



Specifications

Power Requirements	
Power Input	AC models: 100 to 240 VAC DC Models: ± 48 VDC (20 to 72 VDC, -20 to -72 VDC)
Power Consumption (Input Rating)	<ul style="list-style-type: none">• NPort 6600-G2 models: 100-240 VAC, 50-60 Hz, 320 mA (max.)• NPort 6600I-G2 models: 100-240 VAC, 50-60 Hz, 330 mA (max.)• NPort 6600-48V-G2 models: 48 VDC, 340 mA (max.)
Relays	
Contact Current Rating	Resistive load: 1 A @ 24 VDC
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 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% RH
Isolation Protection	<ul style="list-style-type: none">• Serial: 2 kV (for "I" models)• Ethernet: 1.5 kV

RoHS Compliance



All Moxa products are marked with the CE logo to indicate that our electronic products have met the RoHS 2 Directive's requirements.



All Moxa products are marked with the UKCA logo to indicate that our electronic products have met the UK RoHS Regulation.

For further information, please visit our website at:

http://www.moxa.com/about/Responsible_Manufacturing.aspx

Simplified EU and UK Declaration of Conformity

Hereby, **Moxa Inc.** declares that the equipment complies with directives. The full text of the EU and UK declaration of conformity and other detailed information is available at the following Internet address:
<https://www.moxa.com> or <https://partnerzone.moxa.com/>

Restricted Bands of Operation for Wireless Devices



The 5150-5350 MHz frequency band is restricted to indoor use for EU member states.

As countries and regions have different regulations regarding the use of frequency bands to avoid interference, please check local regulations before using this device.

EU Contact Information

Moxa Europe GmbH

New Eastside, Streitfeldstrasse 25, Haus B, 81673 München, Germany

UK Contact Information

MOXA UK Limited

First Floor, Radius House, 51 Clarendon Road, Watford, Hertfordshire, WD17, 1HP, United Kingdom

FCC Supplier's Declaration of Conformity

The following equipment:

Product Model: As shown on the product label

Trade Name: MOXA

It's herewith confirmed this device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device must not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retesting.

CAN ICES-003(A) / NMB-003(A)

Responsible Party—U.S. Contact Information

Moxa Americas Inc.

601 Valencia Avenue, Suite 100, Brea, CA 92823, USA

Phone number: 1-877-669-2123

Manufacturer address:

No. 1111, Heping Rd., Bade Dist., Taoyuan City 334004, Taiwan

Contact Us:

For our worldwide sales offices, please visit our website:

https://www.moxa.com/about/Contact_Moxa.aspx

Product Warranty Statement

Moxa warrants this product to be free from manufacturing defects in materials and workmanship, starting from the date of delivery. The actual warranty period of Moxa's products varies with the product category. Complete details can be found here:

<http://www.moxa.com/support/warranty.htm>

NOTE The warranty statement on the above web page supersedes any statement in this printed document.

Moxa will replace any product found to be defective within the first three months of purchase, provided said product has been properly installed and used. Defects, malfunctions, or failures of the warranted product caused by damage resulting from acts of God (such as floods, fire, etc.), environmental and atmospheric disturbances, other external forces such as power line disturbances, plugging the board in under power, or incorrect cabling, and damage caused by misuse, abuse, and unauthorized alteration or repair, are not warranted.

Customers must get a Return Merchandise Authorization (RMA) number prior to returning a defective product to Moxa for service. The customer agrees to insure the product or assume the risk of loss or damage during transit, to prepay shipping charges, and to use the original shipping container or equivalent.

Repaired or replaced products are warranted for ninety (90) days from the date of repair or replacement, or for the remainder of the original product's warranty period, whichever is longer.

产品保修声明

Moxa 自产品出货日起提供产品保修。保修期间，如因零件损坏或生产不良而导致产品故障，将提供免费维修服务。

Moxa 根据产品类别提供不同保修期限，完整细节可在以下网页查看：

http://www.moxa.com.cn/support/warranty_policy.htm

注 上述网页的保修声明可取代本声明的任何陈述。

从 **Moxa** 出货三个月之内，在正常安装与使用下，如产品发生故障，**Moxa** 将提供换货服务。产品因雷击、洪水、地震等天灾所造成的损坏，其他外部力量（比如电源干扰、带电拔插、错误接线）、错用或乱用、未经 **Moxa** 授权的硬件变更或维修所造成的损坏，缺少产品序列号标签或者标签受损，不在保修范围内。

客户必须先提交在线申请，取得 **RMA** 申请确认单后，再将产品寄回。客户需承担邮寄到 **Moxa** 维修部过程中遗失或受损的风险，并支付运费；以及使用原有包装或具备同等保护效果的包装寄送产品。

经 **Moxa** 维修或换货的产品，自维修或换货日起，有 90 天保修期；产品最后保修期限，以五年保修或 90 天保修两者中更长时间为准。

技术支持与服务联络窗口

邮箱：Support.mcn@moxa.com 联系人：Moxa 技术支持部

返修服务联络窗口

邮箱：rma.mcn@moxa.com 联系人：Moxa 客服部

合格证

此产品通过

-外观检查

-功能及性能试验

-绝缘试验

符合出货标准



Moxa 产品注意事项

1. 请于使用产品前，详读本注意事项。
2. 请保存本注意事项以便后续参考。
3. 请于进行清洁工作前，将产品断电并且从电源端拔除。进行清洁工作时，请勿直接将清洁用溶剂倾倒或喷洒于产品上，请透过清洁布进行清洁工作。
4. 本产品应使用于受限区域（例如受人员管制的计算机室），授权人员须了解并知悉于碰触发热的金属机壳前，应有妥善的安全防护。产品外部的金属部件可能会有一定热度，在接触产品前，请操作人员执行特别防护措施以免操作人员的手或身体遭受伤害。
5. 若产品为需插电产品，请勿将产品摆放于电源插座太远的位置，并且确认操作人员可以无障碍地接近电源插座端。
6. 请让产品远离高湿环境。
7. 请将产品安装于稳固的环境。产品的掉落可能会造成损坏。
8. 产品开口处为利于产品内部空气对流。为确保产品不会过热，请不要阻塞开口处。
9. 连接电源时，请确保电源端的电压输入正确。
10. 请将电源线放置于不会被人员踩踏以及物品重压的位置。
11. 请注意产品上或相关文件中所标示的警告。
12. 若产品不会长时间使用，请断电以避免电源端瞬间压升或压降。
13. 请勿倾倒任何异体于产品开口处，以避免火灾或触电。
14. 请勿自行拆卸产品。就安全考虑，请由合格的技术人员进行拆卸。
15. 若下列任一情形发生，请由合格的技术人员进行确认：
 - a. 电源线或插头损坏。
 - b. 液体侵入产品。
 - c. 产品暴露于高湿环境。

- d. 产品运作不良，或是您无法透过使用手册进行操作。
- e. 产品掉落并且造成损坏。
- f. 产品有明显破损。

16. 任何未经验证的零配件可能造成产品非预期的损害。为确保安装的正确性，请使用配件包所附之零配件进行安装。

17. 工业计算机产品内含有电池供电之实时时钟电路，请依制造商指示进行更换。

18. 请于执行硬件工作时将机壳与电源断开联结。请勿于电源钮为启动状态时连接电源，高感度电子零件可能会因瞬间浪涌电流而造成损伤。

19. 有关产品规格，等级与符合之法规请参考产品本体之标示。

知识产权声明

随附本产品发行的文书或档案为 **Moxa** 版权所有，并保留相关权利。未经 **Moxa** 许可，所有内容不得透过任何途径以任何形式复制、翻印或者传输。

产品保固相关信息

有关 **Moxa** 产品保固政策，请参照 **Moxa** 官网

http://www.moxa.com.cn/support/warranty_policy.htm。

限制责任声明

保修条款得取代其它无论是明示或暗喻、书面或口头的保修协议。**Moxa** 在产品制造、销售、供应及使用上所担负的责任，无论是基于保修条款、合约、过失、产品责任 或其它项目，均不应超过产品的原始成本。对于非蓄意或必然的客户损失，包括因产品的制造、销售或供货所导致的利益损失及使用损坏，**Moxa** 不负任何赔偿责任。

Limitation of Liability

The provisions of the warranty are in lieu of any other warranty, whether expressed or implied, or written or oral. Moxa's liability arising out of the manufacture, sale, or supply of the product and its use, whether based on warranty, contract, negligence, product liability, or otherwise, shall not exceed the original cost of the product. In no event shall Moxa be liable for unintended or consequential damages, including, but not limited to, loss of profits or damages arising out of the manufacture, sale, or supply of the product.

责任限制

本保修条款可取代其它任何明示或暗喻、书面或口头的保修声明。Moxa 在产品制造、销售、供应及使用上所担负的责任，无论是基于保修条款、合约、过失、产品责任或其它项目，均不应超过产品的原始成本。

对于非蓄意或必然的客户损失，包括但不限于因产品的制造、销售或供货所导致的利益损失及使用损坏，Moxa 不负任何赔偿责任。

Product Disposal



This mark on all Moxa products indicates that equipment should not be disposed of by standard waste treatment processes and should be collected separately.



警告

為避免電磁干擾，本產品不應安裝或使用於住宅環境。



CAUTION

There is the risk of an explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



WARNING

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

(Translation: This equipment has KC approval to be used for industrial environments and therefore it has the possibility of interferences with household equipment.)



WARNING

Class 1 Laser Product, complies with 21 CFR 1040.10 and 1040.11, except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.



CAUTION

Ensure to connect the power cord to a socket-outlet with earthing connection if supplied by Class I power supply or power source.



CAUTION

Equipment intended for installation in Restricted Access Location.

This equipment is not suitable for use in locations where children are likely to be present.



CAUTION

1. This product complies with IEC 60417-6042 (2010-11) standards.
2. This product complies with the IEC 60417-6172 (2012-09) standards.

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：設備安全聯網服務器 Equipment name		型號(型式)：NPort 6600-G2、NPort 6600I-G2(及其系列型號) Type designation (Type)					
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols						
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	
外殼	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
印刷電路板及 其電子組件	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
電纜/電線/ 連接器	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

機械部件- 金屬	<input type="radio"/>					
機械部件- 非金屬	<input type="radio"/>					
備考 1. “超出 0.1 wt %”及“超出 0.01 wt %”係指限用物質之百分比含量超出百分比含量基值。						
Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of the presence condition.						
備考 2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。						
Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.						
備考 3. “-” 係指該項限用物質為排除項目。						
Note 3: The “-” indicates that the restricted substance corresponds to the exemption.						

製造商資訊：

Moxa 四零四科技股份有限公司

+886-3-2737575

桃園市八德區和平路 1111 號