

NPort 6400-G2 Series Quick Installation Guide

Version 1.0, July 2025

Technical Support Contact Information
www.moxa.com/support



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P/N: 1802064000010



Package Checklist

- NPort 6400-G2 device server
- Power adapter (does not apply to -T models)
Operation temp. between 0 to 40°C with this power adapter
- 2 wall-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 power adapters for a wide-temperature environment or connecting cables, refer to the Accessories section in the datasheet.

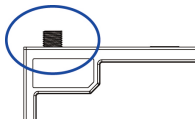
To comply with NEMA TS2, order the DIN-rail power supply NDR-120-48.

NOTE This product requires an external power supply (UL Listed/IEC 62368-1/EN 62368-1/BSMI) that meets ES1, PS2/LPS output specifications. The output rating is rated at 12 to 48 VDC and supports a minimum current of 373 mA. When the ambient temperature exceeds 40°C, choose an external power supply suitable for a non-T model at 60°C and a -T model at 75°C. Above 2,000 m, use an external power source suitable for altitudes up to 4,000 m.

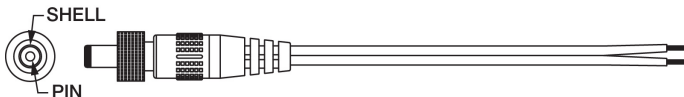
Powering the Device

Unbox the device server and power it up using the power adapter or the power cord provided in the box. The location of the power supply outlet on the device server is shown in the figure on the right:

NPort 6400-G2



If you are connecting the DC outlet of the NPort 6400-G2 with a DIN-rail power supply, you will need a separate power cable, CBL-PJ21NOPEN-BK-30 w/Nut, to convert the terminal block output to the DC outlet.



When using a DIN-rail power supply, properly connect the ground pin. Connect the ground pin to the chassis ground of the rack or system.



CAUTION

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

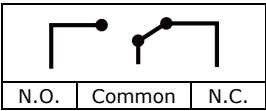
After powering up the device, the Ready LED should turn red first. After a couple of seconds, the Ready LED should turn green, and you should hear a beep, showing the device is ready. For the detailed behavior of the LED indicators, see the *LED Indicators* section.

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)	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.	
P1, P2	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



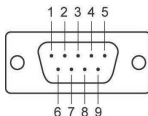
The resistive load of the alarm contact channels: 1 A @ 24 VDC.

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 6400-G2 comes with DB9 serial ports and supports RS-232/422/485. Refer to the following table for the DB9 connector pin assignments.

Pin	RS-232	RS-422 4-wire RS-485	2-wire RS-485
1	DCD	TxD-(A)	-
2	RXD	TxD+(B)	-
3	TXD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-
9	-	-	-



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

Software Installation

NPort 6000-G2 Series configuration uses two methods. The first is to download the Device Search Utility from Moxa's website and the Device Search Utility will help you find the target NPort device server and set the username/password and the IP address. To find more details, scan the QR Code. A video will guide you through the basic settings with Device Search Utility. Also, access the video via this [link](#).



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

You can place the NPort 6400-G2 flat on a desktop or other horizontal surface; the box also includes a wall-mounting kit for mounting it on a wall or inside a cabinet. Order a DIN-rail mounting kit separately for different placement options, as illustrated in the following diagrams:

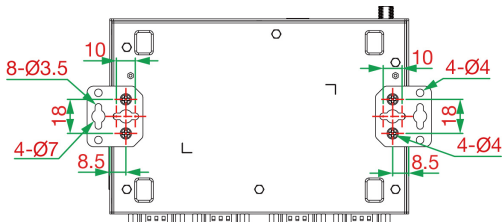
NPort 6400-G2 安全終端伺服器可平放於桌面等平面，同時亦內附壁掛式安裝配件以安裝在現場的牆上或是機櫃中；若需要導軌式安裝，請另行採購相關配件，下以圖示說明各種安裝方式的安裝方法與注意事項。



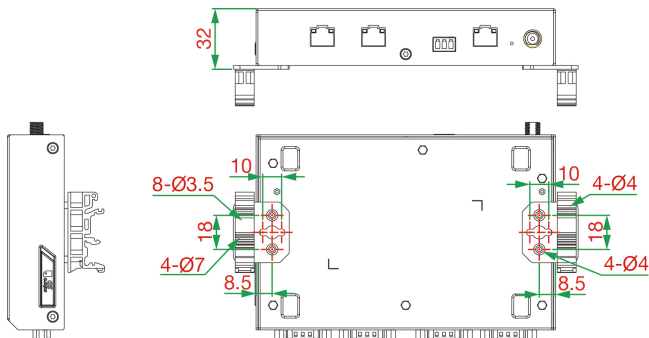
CAUTION

Equipment intended for installation in Restricted Access Location. This equipment is not suitable for use in locations where children are likely to be present.

Wall Mounting 壁掛式安裝



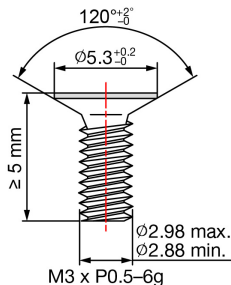
DIN-rail Mounting 導軌式安裝 (with optional DIN-rail mounting kit: DK-43-01)



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

- Wall-mounting kit screws: FMS M3 x 5 mm
- DIN-rail mounting kit screws: FMS M3 x 5 mm

Two screws are needed to mount the device server on a wall. The requirements of the screws are listed on the right:



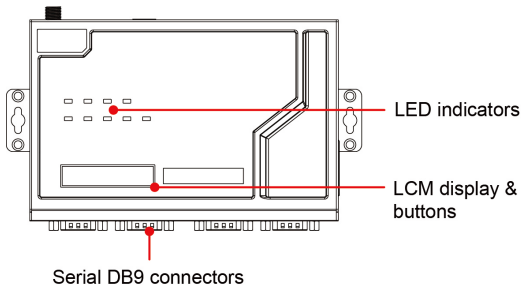
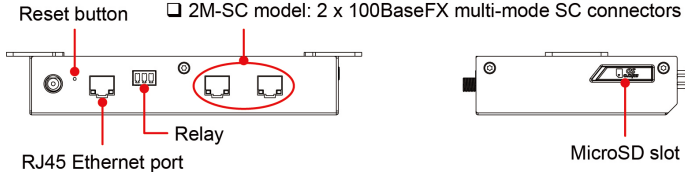
以上各式安裝配件都會包含對應的螺絲，若您偏好自己採購螺絲，以下為各配件我們建議的螺絲尺寸：

- 壁掛式安裝螺絲尺寸: FMS M3 x 5 mm
- 導軌式安裝螺絲尺寸: FMS M3 x 5 mm

當要透過壁掛式將設備鎖附至牆壁上時，會需要另外採購兩根螺絲，建議兩根螺絲的規格詳述如上圖。

The I/O Ports and Interfaces

- ❑ 2TX models: 2 x 100BaseTX RJ45 Ethernet ports
- ❑ 2S-SC model: 2 x 100BaseFX single-mode SC connectors
- ❑ 2M-SC model: 2 x 100BaseFX multi-mode SC connectors





CAUTION

This is a Class 1 laser/LED product. Do not stare into the laser beam.

1. Caution—Use of the controls or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.
2. 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.

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.

Moxa Inc. declares that the equipment complies with China RoHS (Restriction of Hazardous Substances), officially known as Administrative Measure on the Control of Pollution Caused by Electronic Information Products, along with their associate standards. Product information and the corresponding compliance documentation related to China RoHS are available at the following internet address:

<https://www.moxa.com>

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 test 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

PASS

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阻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. 产品开口处为力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. 请勿倾倒任何异物于产品开口处，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。

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

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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.

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：安全終端伺服器		型號（型式）：NPort 6450-G2, NPort 6450-2TX-G2				
Equipment name		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	○	○	○	○	○	○
印刷電路板及其電子組件	—	○	○	○	○	○
電纜/電線/連接器	—	○	○	○	○	○
電源設備	—	○	○	○	○	○
機械部件-金屬	○	○	○	○	○	○
機械部件-非金屬	○	○	○	○	○	○
顯示器	—	○	○	○	○	○
<p>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.</p> <p>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.</p> <p>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.</p>						



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

Risk of 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 기기로서가정용 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.)