NPort 6100-G2/6200-G2 Series Quick Installation Guide

Version 1.1, September 2024

Technical Support Contact Information
www.moxa.com/support

Package Checklist

- NPort 6150-G2 or NPort 6250-G2
- Power adapter (does not apply to -T models)
- 2 wall-mounting ears
- Quick installation guide (this guide)

NOTE Please 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 side-mounting kits, refer to the Accessories section in the datasheet.

NOTE The operating temperature of the power adapter (included in the package) is from 0 to 40°C. If your application is outside this range, use a power adapter supplied by an external UL Listed Power Supply (LPS), whose power output meets SELV and LPS and is rated at 12 to 48 VDC and minimum current 0.16 A and minimum Tma = 75°C.
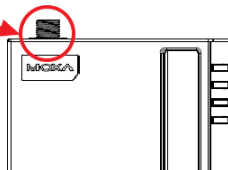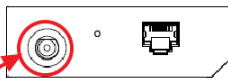
Powering the Device

Unbox the device server and power it up using the power adapter provided in the box. The location of the DC outlet on the device server is indicated in the following figures:
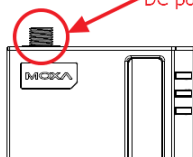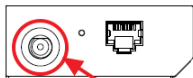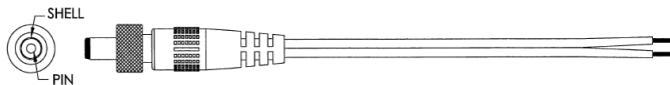
NPort 6150-G2   **NPort 6250-G2**

DC power jack

If you are connecting the DC outlet to 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 on the NPort.

If you are using a DIN-rail power supply or another vendor's power adapter, ensure that the ground pin is properly connected. The ground pin must be connected with the chassis ground of the rack or the system.

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

NPort 6150-G2

NPort 6250-G2

LED Indicators

LED	Color	LED Function	
Ready	Red	Steady	Power is on and the NPort is booting up
		Blinking	Indicates an IP conflict, or the DHCP or BOOTP server did not respond properly or a relay output occurred. Check the relay output first. If the Ready LED continues to blink after resolving the relay output, there may be an IP conflict or an issue with the DHCP or BOOTP server response.
	Green	Steady	Power is on and the NPort is functioning normally
		Blinking	The device server has been located by the Administrator's Location function
	Off	Power is off, or a power error condition exists	
LAN	Green	Steady	Ethernet cable is plugged in and the link is up
		Blinking	Ethernet port is transmitting/receiving data
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 6100-G2/6200-G2 directly with computer's Ethernet port or an Ethernet port of a switch.

Serial Ports

The NPort 6150 models come with 1 serial port while the NPort 6250 models have 2 serial ports. The serial ports come with DB9 male connectors and support RS-232/422/485. Refer to the following table for the 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	–	–	–
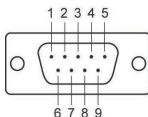
The serial cables for connecting the NPort 6100-G2/6200-G2 to a serial device can be purchased separately.

Software Installation

The default IP address of the NPort is **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 NPort 6100 or NPort 6200, you can import a configuration file to configure the settings.
   If this is your first time to use an 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.

For details, please scan the QR Code. A video will guide you through the basic settings.

You can also access the video via
Link to the video
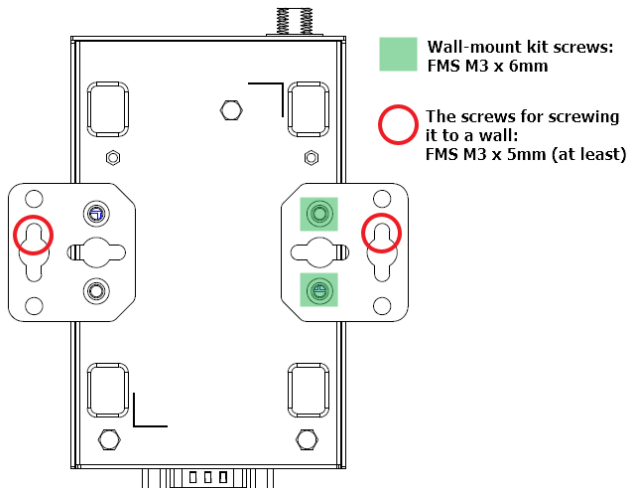
Mounting Options

The NPort 6100-G2/6200-G2 device servers include a wall-mount kit in the box, which can be used to mount the NPort to a wall or the inside of a cabinet. You can order a DIN-rail kit or side-mount kit separately for different placement options.

The NPort 6100-G2/6200-G2 can be placed flat on a desktop or other horizontal surface. In addition, you may use the DIN-rail mount, wall-mount, or side-mount options (DIN-rail and side-mounting kits need to be ordered separately), as illustrated in the following diagrams:

NPort 6100-G2/6200-G2 安全終端伺服器內附壁掛式安裝配件以安裝在現場的牆上或是機櫃中;若需要導軌式安裝或是側掛式安裝,請另行採購相關配件。

同時 NPort 6100-G2/6200-G2 亦可平放於桌面等平面,以下以圖示說明各種安裝方式的安裝方法與注意事項。

Wall Mounting 壁掛式安裝

Wall-mount kit screws:
FMS M3 x 6mm

The screws for screwing it to a wall:
FMS M3 x 5mm (at least)

DIN-rail Mounting (plastic)
塑膠配件的導軌式安裝

DIN-rail kit screws:
FTS M3 x 10.5mm

93.00
[3.661]

64.00
[2.520]

100.40
[3.953]

Side Mounting
側掛式安裝

Ø3.50
[0.138]

32.00
[1.260]

Ø7.00
[0.276]

Side-mount kit screws:
FMS M3 x 6mm

133.00
[5.236]

151.00
[5.945]

10.00
[0.394]
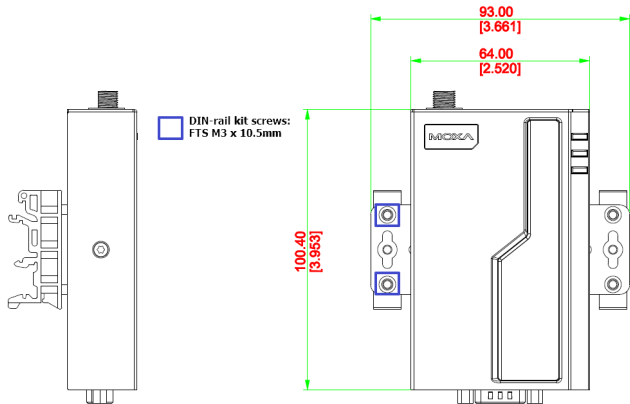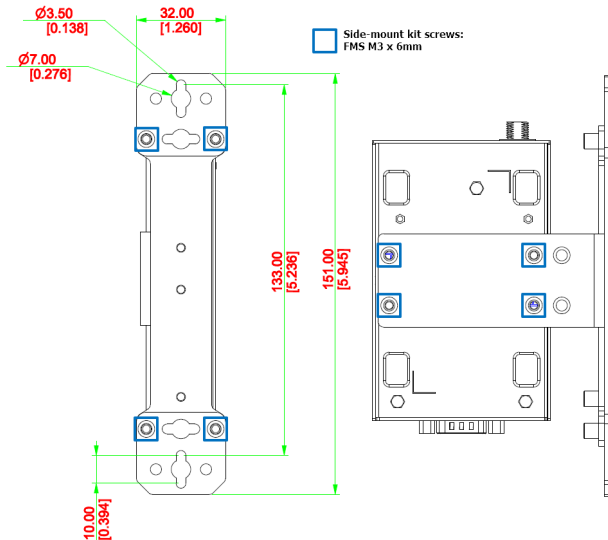
DIN-rail Mounting (metal) With Side-mounting Kit
鐵件的導軌式安裝

Side-mount kit screws:
FMS M3 x 6mm

DIN-rail mount kit
(metal) screws:
FMS M3 x 5mm
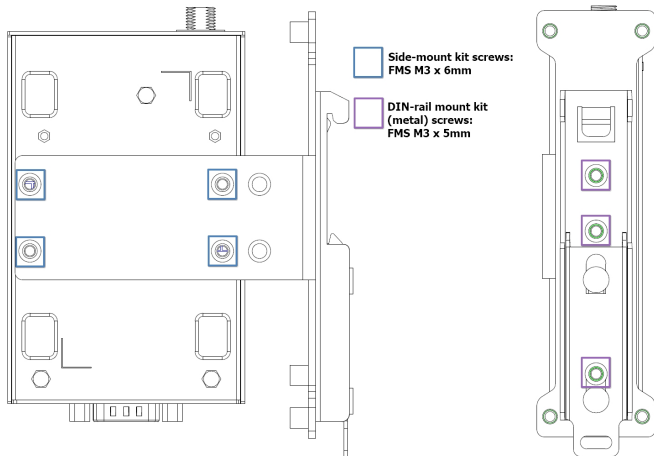
The mounting kit packages include screws. However, if you prefer to buy your own, refer to the dimensions below:

- Wall-mounting kit screws: FMS M3 x 6 mm
- DIN-rail mounting kit screws: FTS M3 x 10.5 mm
- Side-mounting kit screws: FMS M3 x 6 mm
- Metal DIN-rail kit screws (on side-mount kit): FMS M3 x 5 mm
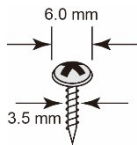
For attaching the device server to a wall or the inside of a cabinet, we recommend using a M3 screw with the following specifications:

- The head of the screw should be between 4 to 6.5 mm in diameter.
- The shaft should be 3.5 mm in diameter.
- The length should be longer than 5 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，以下為各配件我們建議的螺絲尺寸：

- 壁掛式安裝螺絲尺寸: FMS M3 x 6 mm
- 塑件導軌式安裝螺絲尺寸: FTS M3 x 10.5 mm
- 側掛式安裝螺絲尺寸: FMS M3 x 6 mm
- 鐵件導軌式安裝螺絲尺寸: FMS M3 x 5 mm

當要將壁掛式設備鎖附至牆壁上時，建議使用 M3 規格的螺絲，並符合以下尺寸：
  - 螺絲頭的直徑應在 4 - 6.5 mm 之間
  - 螺絲本身的直徑應該是 3.5 mm
  - 螺絲長度不應少於 5 mm

RoHS Compliance

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

UKCA 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 is in compliance 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 device

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 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 retest.

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 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 statements in this printed document.

Moxa will replace any product found to be defective within the first three months of purchase, provided said product was 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 obtain 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

产品中有害物质的名称及含量

产品：联网设备(串口联网设备/接口转换器/USB转串口集线器/浪涌保护器/现场总线)					
部件名称	有害物质				
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	○	○	○	○	○	○
印刷电路板及其电子组件	×	○	○	○	○	○
电缆/电线/连接器	×	○	○	○	○	○
电源设备/电源适配器	×	○	○	○	○	○
机械部件-金属	×	○	○	○	○	○
机械部件-非金属	○	○	○	○	○	○
软件(光盘等)	○	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

但所有部件都符合欧盟 RoHS 要求。

根据《电器电子产品有害物质限制使用管理办法》中的定义，电器电子产品环保使用期限是指用户按照产品说明正常使用时，电器电子产品中含有的有害物质不会发生外泄或突变，不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

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：
16. 电源线或插头损坏
17. 液体侵入产品
18. 产品暴露于高湿环境

19. 产品运作不良，或是您无法透过使用手册进行操作。
    产品掉落并且造成损坏。
20. 产品有明显破损。
21. 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。
22. 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。
23. 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。
24. 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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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。

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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：RS-232/422/485 安全終端伺服器　型號（型式）
NPort 6150-G2, NPort 6150-G2-T, NPort 6250-G2, NPort 6250-G2-T

單元 Unit	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯醚 (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	○	○	○	○	○	○
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準值。						
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。						
備考3.〝－〞係指該項限用物質為排除項目。						

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

⚠️ **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.