

INDUSTRIAL PRODUCT DATASHEET

PCIe to M.2 hat for Raspberry Pi 5, Support NVMe SSD, Support Hailo8/8L

A high-speed PCIe to M.2 expansion hat for Raspberry Pi 5, enabling NVMe SSD storage and Hailo8/8L AI acceleration with a user-friendly, back-mounted design.

SKU

103110063

UPDATED

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PRICE

\$5.90(Excl. VAT)



Overview



The PCIe to M.2 hat for Raspberry Pi 5 provides high-speed expansion via PCIe Gen2 x1 or Gen3 x1, supporting NVMe SSDs (2230/2242/2260/2280) and Hailo8/8L AI accelerators. Its back-mounted design preserves GPIO access and cooling compatibility, with an S-shaped FPC cable that avoids obstructing the micro SD card slot.

Key Features

- **High-speed expansion:** Seeed Studio PCIe to M.2 hat compatible with Raspberry Pi 5, supporting PCIe Gen2 x1 and PCIe Gen3 x1 speeds. It can be used to expand high-speed storage with NVMe SSDs and Hailo8/8L NPU AI accelerators.
- **Stable Connection:** Additional Pogo Pins for extra power supply to ensure a stable high-speed connection.
- **Multiple size support:** 2230/2242/2260/2280 compatible.
- **Back-mounted design:** This hat features a back-mounted design, allowing users to freely use the 40-pin GPIO and can be used in conjunction with other hats. Additionally, it does not obstruct official Raspberry Pi heatsinks and fans, providing better airflow and cooling efficiency.
- **User-friendly Design:** S-shaped FPC cable design that does not obstruct the micro SD card.
- **Open source case:** Seeed M.2 hats aren't compatible with Raspberry Pi official case, so we provide adapted 3D printing case stp file. [Click to download](#)

Due to compatibility issues with Raspberry Pi's PCIe, not all NVMe SSDs are supported. Raspberry Pi's official developers are continuously updating the system to support more NVMe SSD controllers and models. Especially if booting from an SSD is required, we strongly recommend updating to the latest Raspberry Pi firmware and bootloader. For detailed instructions, please refer to the [Seeed wiki](#).

Note: SATA SSD is not compatible with this hat.

Many excellent suppliers, such as Pimoroni, provide detailed compatibility lists. We are sorry that at this stage we have not tested enough SSD models to provide a detailed SSD compatibility list. Currently, on the Seeed homepage of [pibenchmarks](#), there are several verified SSDs that can be used for storage and system boot disks. We will try to improve this list as much as possible in the future. Users are also welcome to share compatibility information in the comments section or via email. For now, you can refer to the compatibility lists of other SSD with Raspberry Pi 5 in the community. If you are unsure which SSDs are compatible, you can purchase SSDs sold on the Seeed website, all of which are verified. Among them, 128GB, 256GB, and 512GB are from Foresee, and 1TB is from Kioxia.

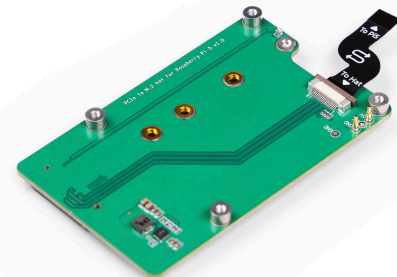
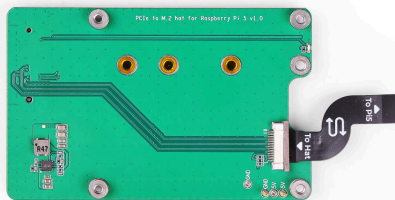
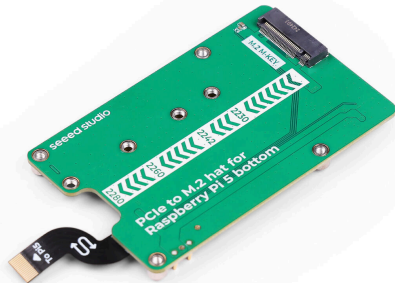
NVMe M.2 2280 SSD 1TB-Seeed Studio

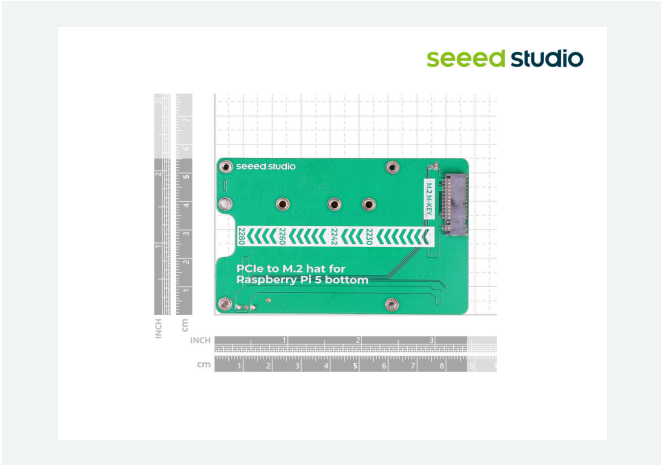
[512GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD - Seeed Studio](#)

[256GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD - Seeed Studio](#)

[128GB NVMe M.2 PCIe Gen3x4 2280 Internal SSD - Seeed Studio](#)

Product Gallery

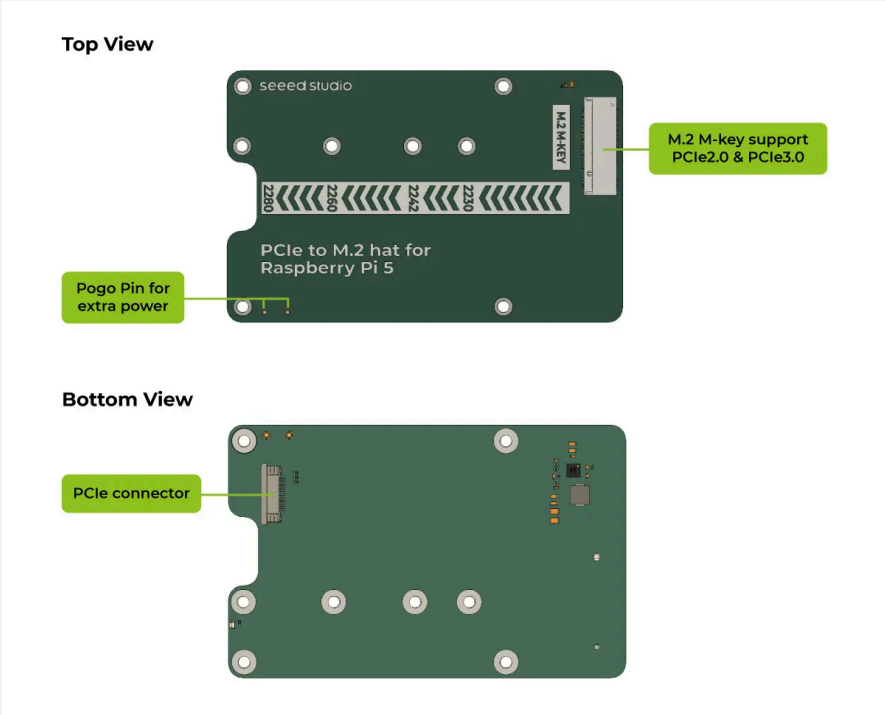




Specification

PCIe speed	PCIe Gen2.0 x1/PCIe Gen3.0 x1
Power Supply	5V/ 2A(max 2A: Pogo pin 1A+PCIe connector 1A)
M.2 size	2230/2242/2260/2280

Hardware Overview



Applications

- Support Hailo8/8L AI NPU acceleration
- Raspberry Pi large-capacity storage
- Booting a Raspberry Pi from the SSD

Part List

PCIe to M.2 hat	x1
50mm FPC cable	x2
Screw & stud pack	x1

Compliance & Logistics



HSCODE	8543909000
USHSCODE	8543903500
UPC	
EUHSCODE	8543709099
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/PCIe-to-M-2-hat-for-Raspberry-Pi-5-p-5974.html>
- [3D print case stp file](#)

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