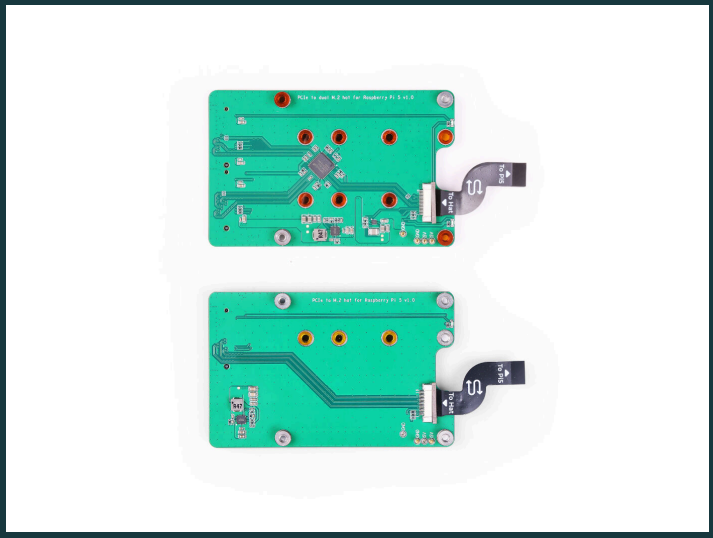
seeed studio

INDUSTRIAL PRODUCT DATASHEET

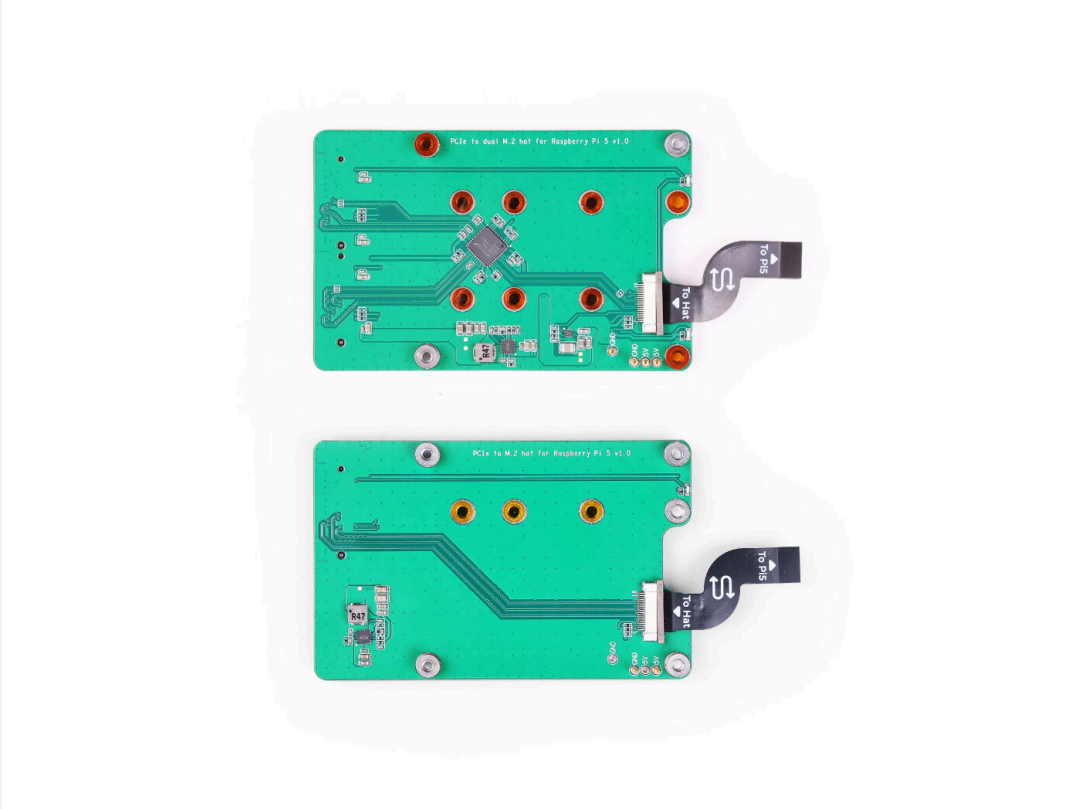
Seeed Studio M.2 hat for Raspberry Pi5 bundle

Seeed Studio M.2 hat for Raspberry Pi5 bundle provides stable PCIe Gen2 x1 expansion for NVMe SSDs and AI accelerators in a back-mounted, user-friendly design.

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Overview



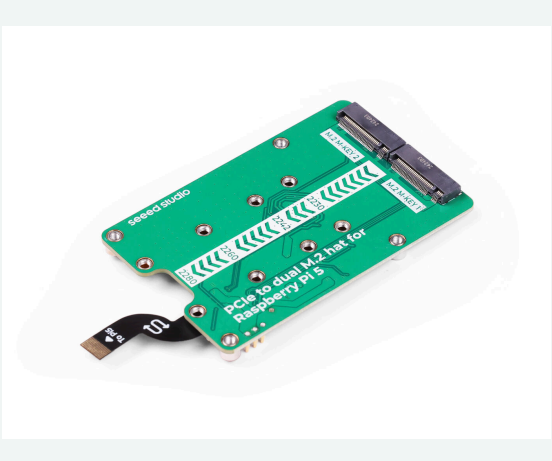
The Seeed Studio M.2 hat for Raspberry Pi5 bundle enables PCIe Gen2 x1 high-speed expansion, supporting NVMe SSDs (2230/2242/2260/2280) and Hailo8/8L NPU AI accelerators. Its back-mounted design preserves GPIO access and heatsink compatibility, while the S-shaped FPC cable avoids micro SD card obstruction, and an open-source 3D printing case file is provided.

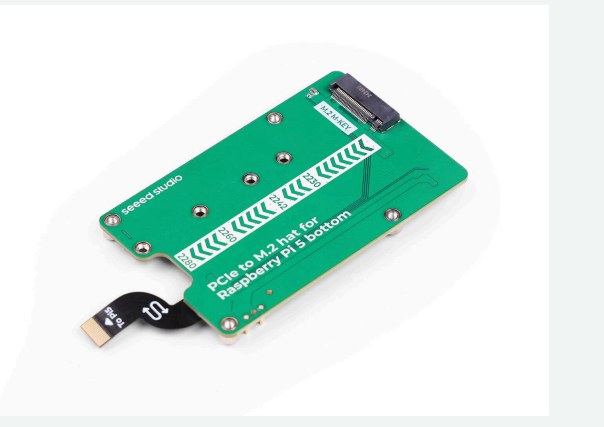
Key Features

- **High-speed expansion:** Supporting PCIe Gen2 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**

Product Gallery







Specification

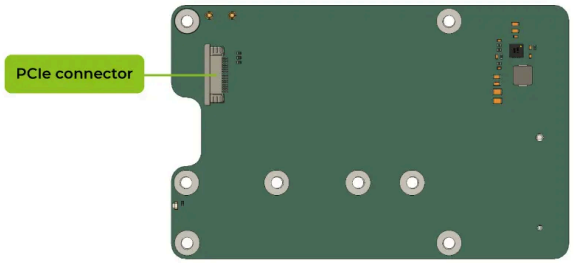
PCIe to M.2 hat	
M.2 M-key slot	x1
PCIe speed	PCIe Gen2.0 x1/PCIe Gen3.0 x1
Power Supply	5V/ 2A(max 2A: Pogo pin 1A+PCIe connector 1A)
M.2 size	2230/2242/2260/2280
PCIe2.0 to dual M.2 hat	
M.2 M-key slot	x2
PCIe speed	PCIe Gen2.0 x1
PCIe switch chip	ASM1182E
M.2 size	2230/2242/2260/2280
Power Supply	5V/ 3A(max 3A: Pogo pin 2A+PCIe connector 1A)

Hardware Overview

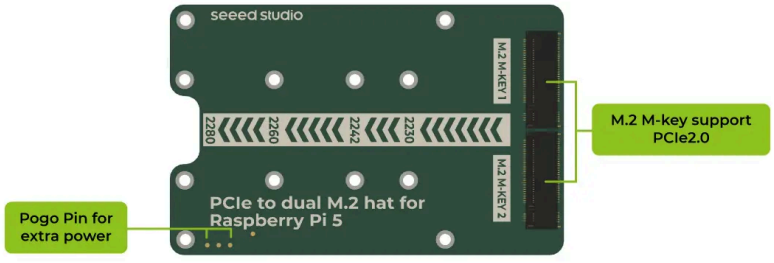
Top View



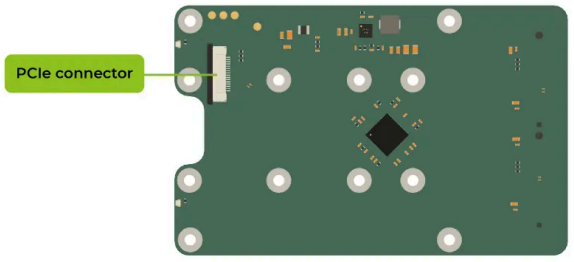
Bottom View



Top View



Bottom View



Resource Links

- https://www.seeedstudio.com/Seeed-Studio-M-2-hat-for-Raspberry-Pi5-bundle.html
- 3D print case stp file

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