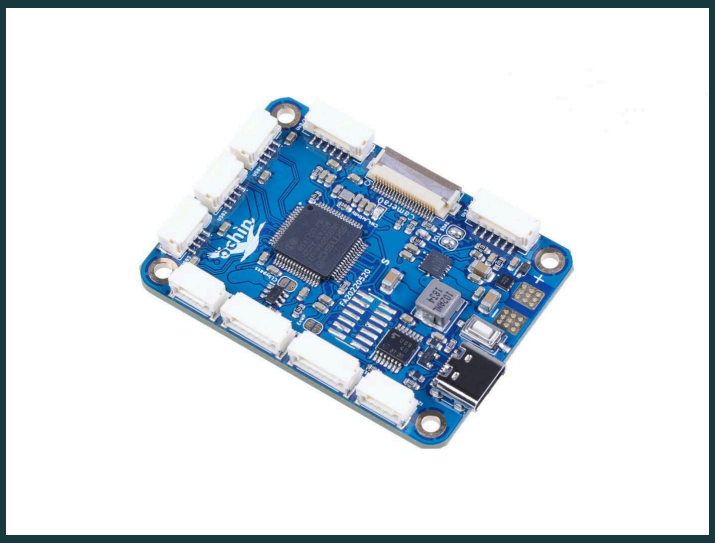
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INDUSTRIAL PRODUCT DATASHEET

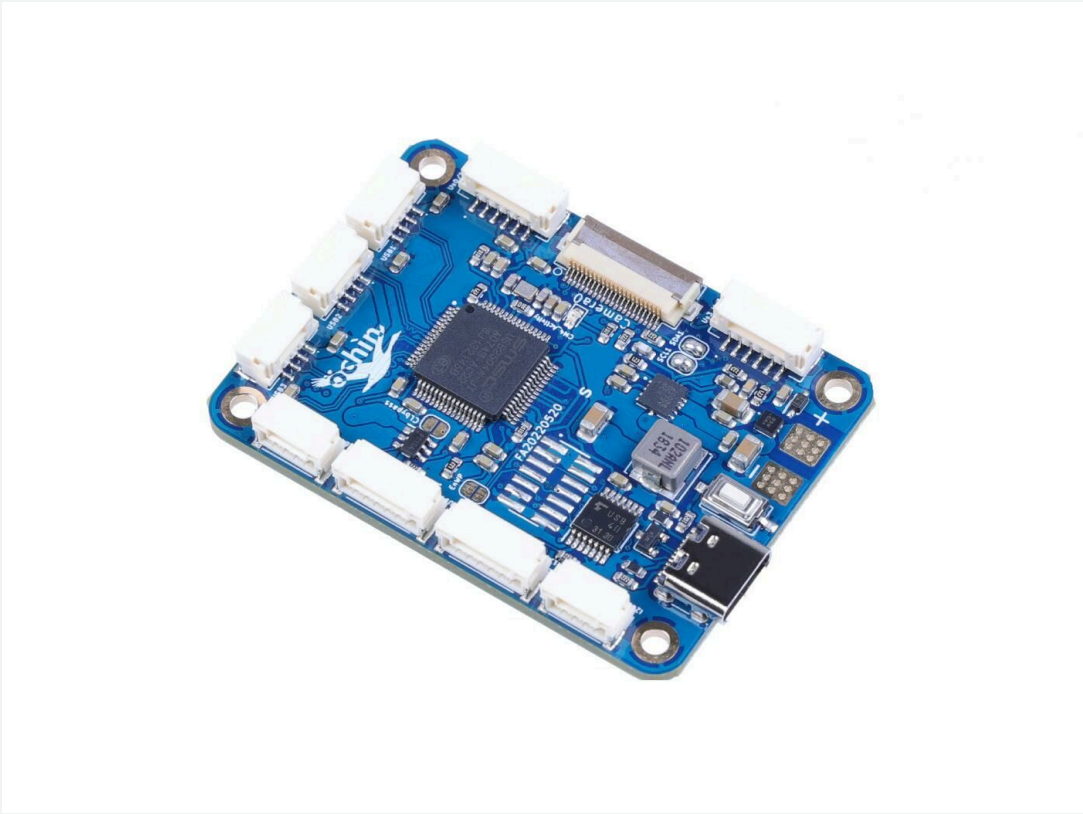
Ochin CM4 -Tiny Carrier Board for Raspberry Pi Compute Module 4（CM4）

The Ochin CM4 is a tiny carrier board for the Raspberry Pi Compute Module equipped with the powerful Quad-core Cortex-A72 CPU and GPU, which features a big RAM size, the CODECs, and Graphic Accelerators.

SKU	UPDATED	PRICE
103100163	2026-11-11 08:52:03	$59.90(Excl. VAT)



Overview



The Ochin CM4 is a tiny carrier board for the Raspberry Pi Compute Module equipped with the powerful Quad-core Cortex-A72 CPU and GPU, which features a big RAM size, the CODECs, and Graphic Accelerators. It's designed for a wide range of applications such as robotics, home automation, and IoT projects.

Key Features

01 **High-performance**

Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz

02 **High Resolution Supported**

H.265 (HEVC) (up to 4Kp60 decode), H.264 (up to 1080p60 decode, 1080p30 encode) and OpenGL ES 3.0 graphics

03 **Rich interfaces**

1×USB 2.0 port (highspeed);MIPI CSI-2: 1×2-lane MIPI CSI camera port, 1×4-lane MIPI CSI camera port; 1×USART, 3×UART, 1×I2C port, 1×SPI port, Analog Video Output

04 **Strong Compatibility**

Compatible with raspberry pi 4 modules with faster eMMC flash with up to 100 MB/s transfer rate, 4x faster than CM3+

05 **Compact Design**

Same size as CM4 module, 55mm × 40mm × 4.7mm

06 **uHDMI video output**

07 **current/voltage sensor**

08 **rgb led, button and USB-C on a small external board**

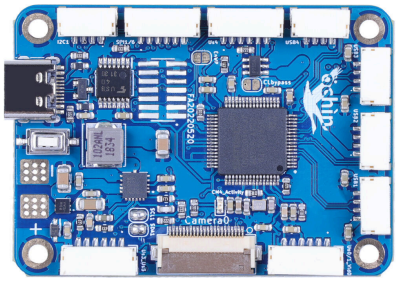
09 **2x user LEDs**

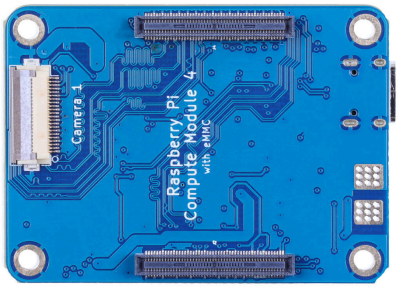
10 **100Base-T Ethernet without transformer**

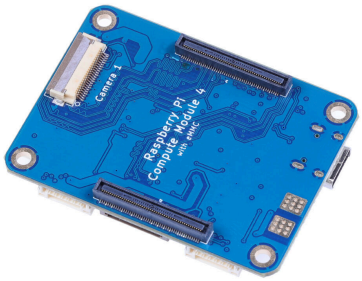
11 **and much more!**

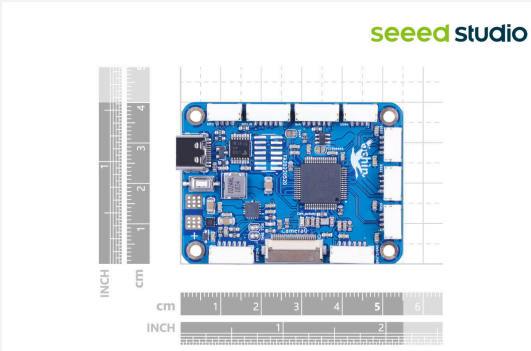
12 **The Ochin board has also been tested to work with OpenHDopen source software.**

Product Gallery

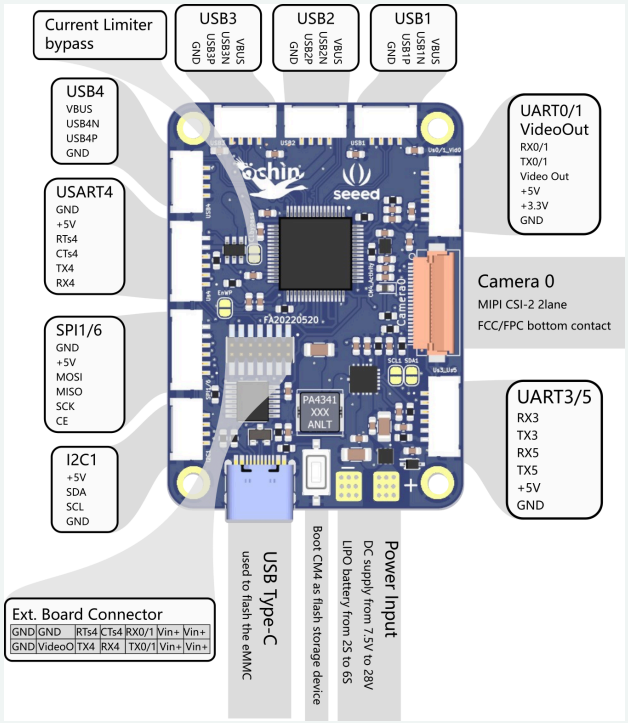








Hardware Overview



Applications

- **Audio/video manipulation and streaming**
- **Neural networks**
- **Machine learning**
- **Computer vision**
- **Robotics**
- **Home automation**
- **IoT projects**
- **FAQ:** 1. Just wondering... which variety of the CM4 Module (with EMMc memory, with MicroSD card, with or without WiFi, with 2,4,8 GB RSM is presumably the best bet?
- **Answer: EMMc is mandatory, Ochin board doesn't have the sdcard header. The reasons why are: save space for other connectors (i wanted to keep the same size of the cm4), emmc is much faster and durable, and the interface is used for emmc OR sdcard (cm4 with EMMc doesn't work with sdcard). If you want to use OpenHD 16GB is enough (maybe 8GB but not sure). I'm also developing an sw, totally different in goal and type from OpenHD and it may need more space, I'll tell you more very soon. About the RAM, OpenHD guys say that 1GB is enough, with other sw you may need more, depending on what you want to do, for example for computer vision, machine learning, etc, more is better. In my opinion, 16GB EMMc 2GB RAM is a good option, but if you want to develop sw you better go to 32GB.**
- **2. This model could be connected by USB to a mobile or tablet and have video and data in the Qgroundcontrol app or OpenHD App, right?**
- **Answer:This is a carrier board for the Raspberry Pi CM4. If you use with OpenHD you can connect the smartphone to the ground station**
- **3. How do I remove the CM4 from the Ochin CM4?:** Answer:Print and use the extractor for the CM4 module if you don't want to break the mezzanines, you can find the .stl in the "3d/Covers turrets and extractors" section of this repository.

Resource Links

- https://www.seeedstudio.com/Ochin-Tiny-Carrier-Board-for-Raspberry-Pi-Compute-Module-4-p-5463.html
- How to install ochin_web
- How to install the "Local Atlas" addon on ochin_web software
- ochin_web - Template

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