



# RAKR314 CM4 Base Board

Thank you for choosing **RAKR314 CM4 Base Board** in your awesome IoT project! 🎉 To help you get started, we have provided you with all the necessary documentation for your product.

- [Flashing the OS](#)
- [Assembly Guide](#)

## Product Description

The RAKR314 carrier board is specifically designed for the Raspberry Pi Compute Module 4, adhering to the Raspberry Pi 4 form factor. This feature-rich board includes a standard 40-pin GPIO and supports the RAK PoE HAT, making it an excellent choice for Power over Ethernet (PoE) applications.

It offers extensive connectivity options, including two USB 2.0 ports, two USB 3.0 ports, two USB Type-C ports (one for power and one for programming), and an Ethernet port. Additionally, the SD card slot provides extra storage for eMMC-equipped CM4 modules or serves as the primary boot option for non-eMMC modules.

One of the standout features of the RAKR314 is its ability to harness the power of the CM4 module while maintaining the familiar Raspberry Pi form factor, allowing compatibility with all your existing HATs. Additionally, the included enclosure kit simplifies the process of building your devices.

## Product Features

- Gigabit Ethernet port
- Support PoE with RAK PoE HAT for Raspberry Pi
- USB-C CM4 flashing connector
- USB-C DC 5 V power supply connector
- 2x USB 2.0 ports
- 2x USB 3.0 ports
- 40-pin header

- 1x PWR LED
- 1x ACT LED
- 1x Micro SD card slot
- Dimensions: 68.63 mm x 94.09 mm

## Board Overview

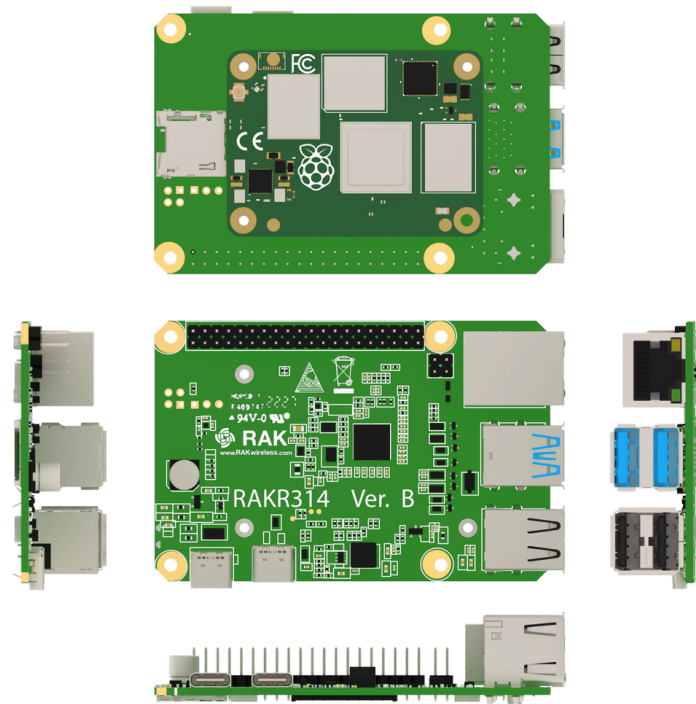


Figure 1: RAKR314 Board Overview

## Interfaces

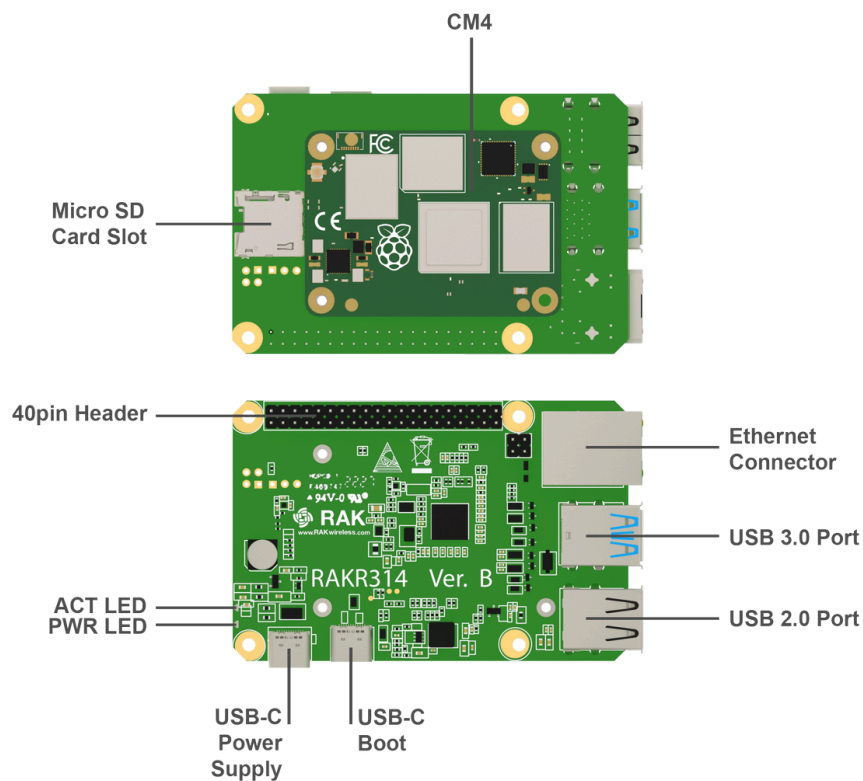


Figure 2: RAKR314 Interfaces

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