

# RM-CMP4

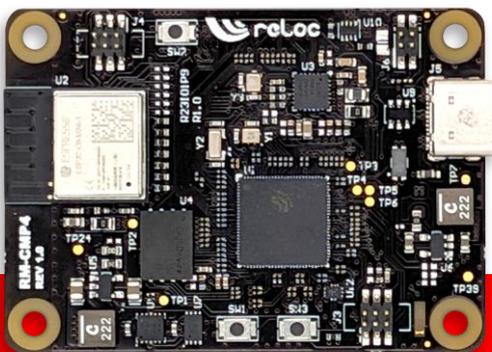


## ESP32-P4 High-Performing Compute-on-Module

Dual-core RISC-V ◦ Wi-Fi 6 ◦ BLE 5.0 ◦ 802.15.4 ◦ Crypto ◦ RPi CM4 form-factor

The **RM-CMP4** is a **high-performance embedded module built around the ESP32-P4**, featuring a dual-core RISC-V CPU with AI instruction extensions and robust security features.

Designed for next-generation embedded applications, it supports rich Human-Machine Interfaces and efficient edge computing. Integrated Wi-Fi 6 connectivity, based on the ESP32-C6, ensures high throughput, low latency, and enhanced IO connectivity for demanding IoT and industrial use cases.



High-Performance 400 MHz Dual-Core RISC-V



Secure On-Board Wireless & Wired Connectivity



Rich Human-Machine Interface Platform

### KEY FEATURES

- ESP32-P4 based module compatible with Raspberry Pi CM4/5 form factor
- AI instruction extensions
- Up-to 32 MB RAM / 32 MB Flash
- On-board crypto-chips
- Rich multimedia (display, camera, audio) and IO connectivity
- Multiple wireless communications (Wi-Fi 6, BLE 5, 802.15.4, ZigBee/Thread)
- On-Board Ethernet 10/100 transceiver

### MAIN APPLICATIONS

- High-Performance Embedded Solutions
- Rich Human-Machine Interfaces
- Internet-of-Things Gateways
- Advanced Robotics and Automation
- Secured Embedded Applications
- Efficient Edge-Computing Devices

### SPECIFICATIONS

MCU	ESP32-P4 with AI extension
Memory	32MB RAM / 32MB Flash
Connectivity	Wi-Fi 6, BLE 5, 802.15.4, Ethernet, USB
Multimedia	MIPI DSI, CSI, I2S
Power Supply	5 VDC / USB-C
Operating temperature	-40 °C to +85 °C
Size	55 mm x 40 mm

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