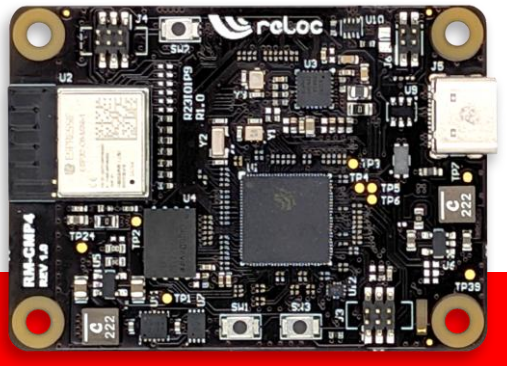
SCINTIX P4

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

SCINTIX P4 is a high-performance embedded module built around the ESP32-P4, featuring a dual-core RISC-V CPU with AI instruction extensions, an advanced memory subsystem, 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.



MAIN APPLICATIONS

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

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
- Large memory footprint (up-to 32 MB RAM / 32 MB Flash)
- Robust security architecture enhanced with 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

SPECIFICATIONS

MCU	ESP32-P4 with AI instruction extensions
Memory	16/32MB 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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