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INDUSTRIAL PRODUCT DATASHEET

reComputer AI R2130-12 - The World's Most Powerful Raspberry Pi AI Box

It's a compact edge AI system powered by Raspberry Pi 5 and the 26 TOPS Hailo-8 AI accelerator, designed for real-time, low-latency, and high-efficiency AI inferencing.

SKU	UPDATED	PRICE
114993560	2026-11-11 09:10:26	$372.90(Excl. VAT)



Overview



It's a compact edge AI system powered by Raspberry Pi 5 and the 26 TOPS Hailo-8 AI accelerator, designed for real-time, low-latency, and high-efficiency AI inferencing. With its versatile interfaces, this solution excels across a wide range of AI applications, including AI-powered video analytics, machine vision, and intelligent edge computing.

Key Features

01 **Powerful Performance with Raspberry Pi 5 Module**

4GHz quad-core 64-bit Arm Cortex-A76 & VideoCore VII GPU. Features up to 16GB RAM.

02 **AI Vision Processing**

With the Hailo-8 AI accelerator, it delivers up to 26 TOPS, enabling real-time, high-performance AI vision processing across multiple channels.

03 **Powerful Cooling Capabilities**

Its compact design and efficient thermal architecture ensure optimal cooling, making it perfect for deployment in resource-limited environments.

04 **Extensive Connectivity**

2 x HDMI 4Kp60, 1 x Ethernet Port, 2 x USB 3.0, 2 x USB 2.0. Dual M.2 Slots with PCIe 3.0 speed for enhanced performance.

05 **Wireless Connectivity**

Dual-band Wi-Fi and Bluetooth 5.0/BLE.

Product Gallery







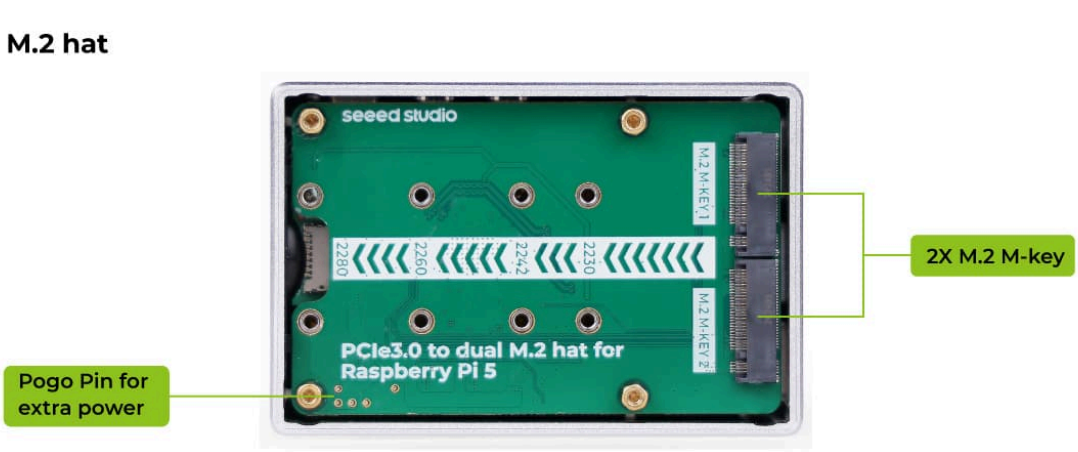






Hardware Overview





Applications

- **With advanced features like object detection, object recognition, object tracking, OCR, and abnormal event detection with real-time alert triggers, this AI box is designed to deliver exceptional performance in resource-constrained environments.**
- **Surveillance & Security:** Integrated into NVR systems for real-time video analytics, including object detection (e.g., intruders, abandoned items) and anomaly detection, enhancing situational awareness and security efficiency.
- **Smart Retail:** Create innovative Smart Retail solutions using AI-driven features like real-time visual product recognition, personalized shopping experiences, and advanced customer behavior analytics for optimized store operations.
- **Smart Transportation:** Processes traffic and parking data from cameras/sensors at the edge, enabling intelligent traffic flow analysis and smart parking guidance to reduce congestion.
- **Digital Signage & Audience Engagement:** Links to cameras and content servers for dynamic content adaptation based on facial recognition and audience demographics, improving engagement in public spaces or retail environments.
- **Smart Building:** Integrates sensors and IoT devices to monitor and optimize building systems such as lighting, HVAC, and security. Uses AI for energy efficiency, predictive maintenance, and occupant comfort, enhancing building management.

Resource Links

- https://www.seeedstudio.com/reComputer-AI-R2130-12-p-6368.html
- Seeed reComputer AI R Series Flyer
- SeeedRasperryPiFlyer
- SeeedreComputerAIRSeriesFlyer-CN
- Seeed Raspberry Pi Flyer-CN

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