

INDUSTRIAL PRODUCT DATASHEET

Raspberry Pi AI HAT+ 2 | Hailo-10H AI Accelerator 40 TOPS

High-performance 40 TOPS AI accelerator for Raspberry Pi 5, bringing large language and vision model inference to the edge.

SKU

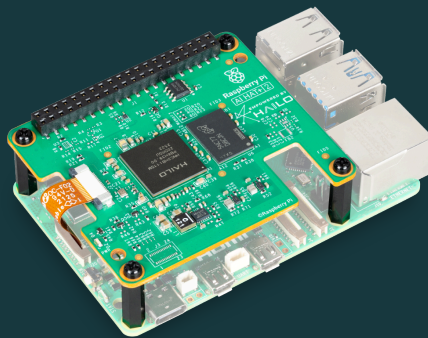
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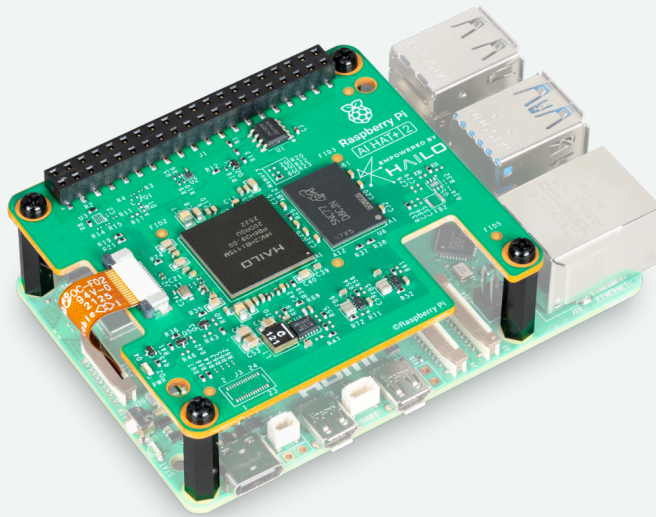
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PRICE

\$200.00(Excl. VAT)



Overview



The Raspberry Pi AI HAT+ 2 features a Hailo-10H AI accelerator delivering 40 TOPS (INT4) for vision and generative AI tasks, including support for large language and vision models. It seamlessly integrates with Raspberry Pi 5 and its camera software stack, enabling applications from object detection to intelligent dialogue with low power consumption.

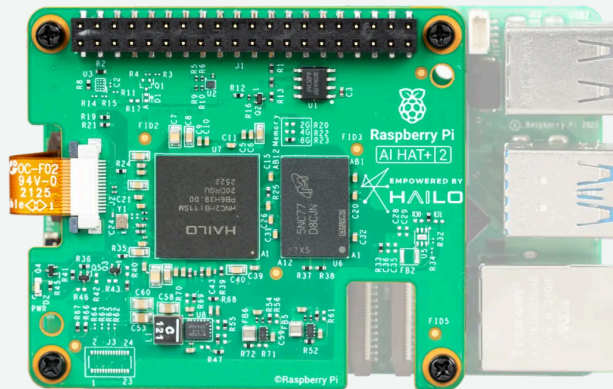
Key Features

- **Built-in Hailo AI Accelerator:** Equipped with a Hailo AI accelerator delivering 40 TOPS (INT4). It offers vision capabilities equivalent to the AI HAT+ while adding support for LLMs and VLMs.
- **Expected LLM/VLM support at launch:**
 - Llama-3.2-3B-Instruct
 - 5-VL-3B
 - ASR (whisper-base)
- **Seamless Integration:** Fully integrated into the Raspberry Pi camera software stack, offering native support for AI-driven post-processing tasks via the built-in rpicalm applications.
- **Easy Installation:** The AI HAT+ 2 comes with a 16mm stacking header, spacers, and screws, allowing for effortless mounting on the Raspberry Pi 5 even when an Active Cooler is installed.
- **Energy Efficient:** Designed for high-performance AI, the AI HAT+ 2 delivers impressive processing power while maintaining low power consumption.
- **Versatile Application Support:** Supports a wide range of AI applications, including object detection, pose estimation, intelligent dialogue, and image understanding, significantly enhancing the capabilities of Raspberry Pi projects.

Specification

Operating Temperature	0°C to 50°C (ambient)
Performance	40 TOPS (INT4) for high-performance AI tasks
Compliance	For a full list of local and regional product approvals, visit Documents - Product Information Portal - Raspberry Pi

Hardware Overview



Applications

- **Manufacturing & Industrial Automation:** Leveraging high-speed PCIe connectivity and powerful computing performance, this solution enables precision quality inspection, autonomous robotic control, and predictive maintenance. It delivers real-time multi-tasking decision-making at the edge, significantly enhancing factory digitalization and operational efficiency.
- **Multimodal Video Analytics & Security:** Empowered by Vision-Language Models (VLM), the system supports behavioral recognition, anomaly detection, and real-time semantic alerts. The onboard 8GB memory ensures seamless concurrent processing of multiple high-definition video streams, providing deep situational awareness for modern security.
- **Smart Retail & Edge Gateways:** Optimize operations through real-time product recognition, customer behavior analytics, and traffic management. Its local LLM inference capability ensures robust data security and efficient infrastructure control for smart buildings and retail environments, even in offline scenarios.
- **Higher Education & Engineering Practice:** Designed as a next-generation AI teaching tool and course project kit, it supports curriculum development in deep learning and edge computing. Its user-friendly ecosystem allows students to bridge the gap between algorithm simulation and physical prototype development effectively.
- **Developer Innovation & Prototyping:** Provides developers with a high-performance Generative AI inference engine to accelerate projects like ASR voice assistants and vision-based robotics. The exceptional power-to-performance ratio enables individuals to transform creative ideas into commercial-grade prototypes with minimal cost.

Part List

Raspberry Pi AI HAT+ 2	X1
16mm GPIO Stacking Header	X1
Screw set	X1

Compliance & Logistics

HSCODE	8473309000
USHSCODE	8473309100
UPC	
EUHSCODE	8471707000
COO	TW

Resource Links

- <https://www.seeedstudio.com/Raspberry-Pi-AI-HAT-2-p-6648.html>

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com