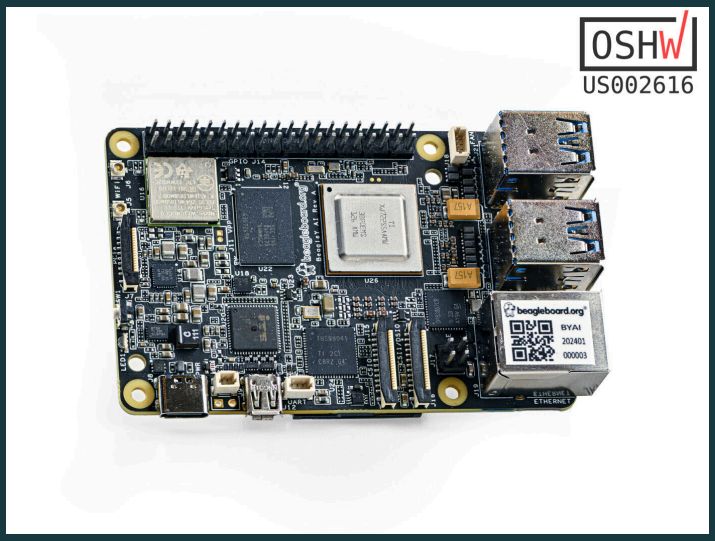
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INDUSTRIAL PRODUCT DATASHEET

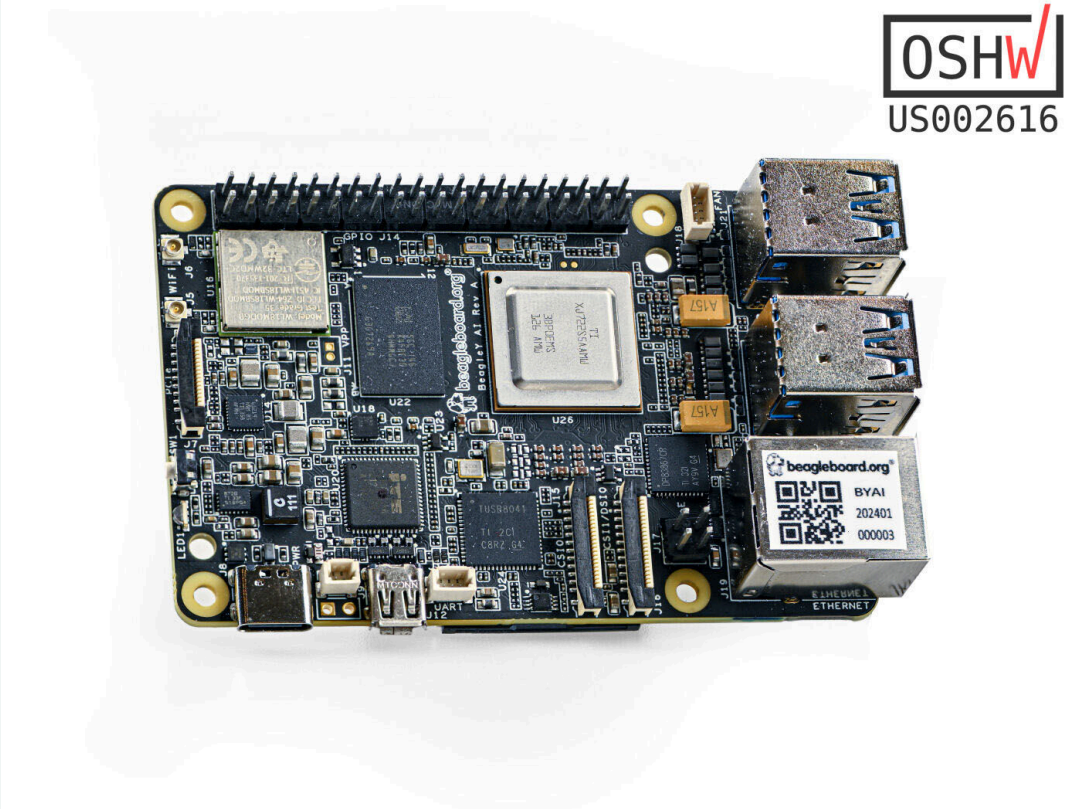
BeagleY®-AI

BeagleY®-AI is a high-performance single board computer powered by the Texas Instruments AM67A AI vision processor, delivering up to 4 TOPS of deep learning capability.

SKU	UPDATED	PRICE
102991834	2026-11-11 09:00:40	$70.00(Excl. VAT)



Overview



BeagleY®-AI is a high-performance single board computer powered by the Texas Instruments AM67A AI vision processor, delivering up to 4 TOPS of deep learning capability. Ideal for robotics, automation, and intelligent vision projects, it features extensive connectivity options and a 40-pin header for easy prototyping. Perfect for enthusiasts and professionals alike, BeagleY®-AI combines power and versatility in a compact, open-source design.Check more Beaglebone Hardware.

Key Features

01 **High-Performance Processor**

Powered by the Texas Instruments AM67A AI vision processor with four 64-bit Arm® Cortex®-A53 CPU cores up to 1.4 GHz, enabling robust AI, machine vision, and real-time automation capabilities.

02 **AI Acceleration**

Equipped with dual C7x DSPs and two Matrix Accelerators (MMAs) delivering up to 4 TOPS of deep learning performance, making it ideal for complex AI tasks.

03 **Advanced Connectivity**

Features high-speed PCIe, USB3 interfaces, and flexible multimedia I/Os, supporting cost-effective multi-camera and multi-display systems.

04 **Rapid Prototyping**

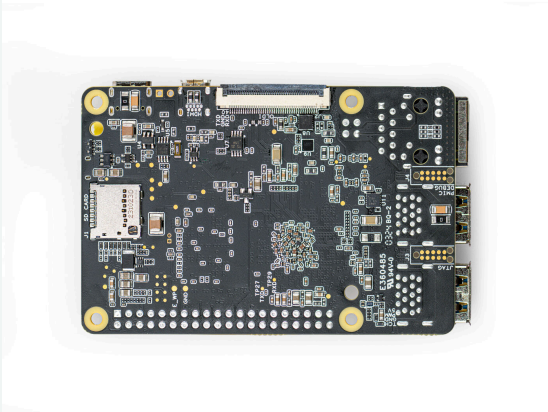
The 40-pin expansion header allows for solder-free system prototyping with countless compatible sensors, actuators, and connectivity add-ons, facilitating rapid development.

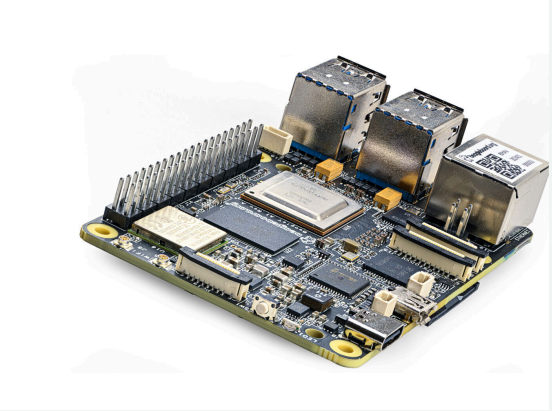
05 **Customizable and Open-Source**

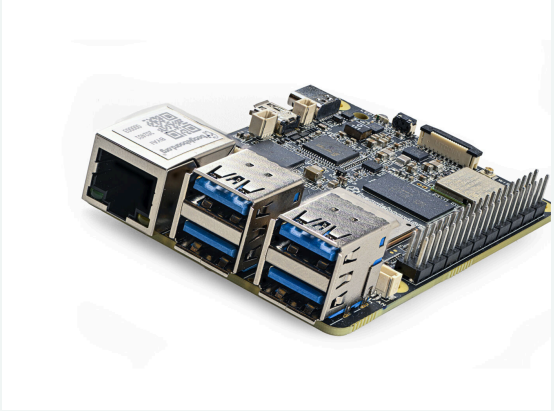
Fully open-source design that allows professional and advanced users to modify hardware, optimizing supply chain management, manufacturing, and creating tailored derivatives.

Product Gallery

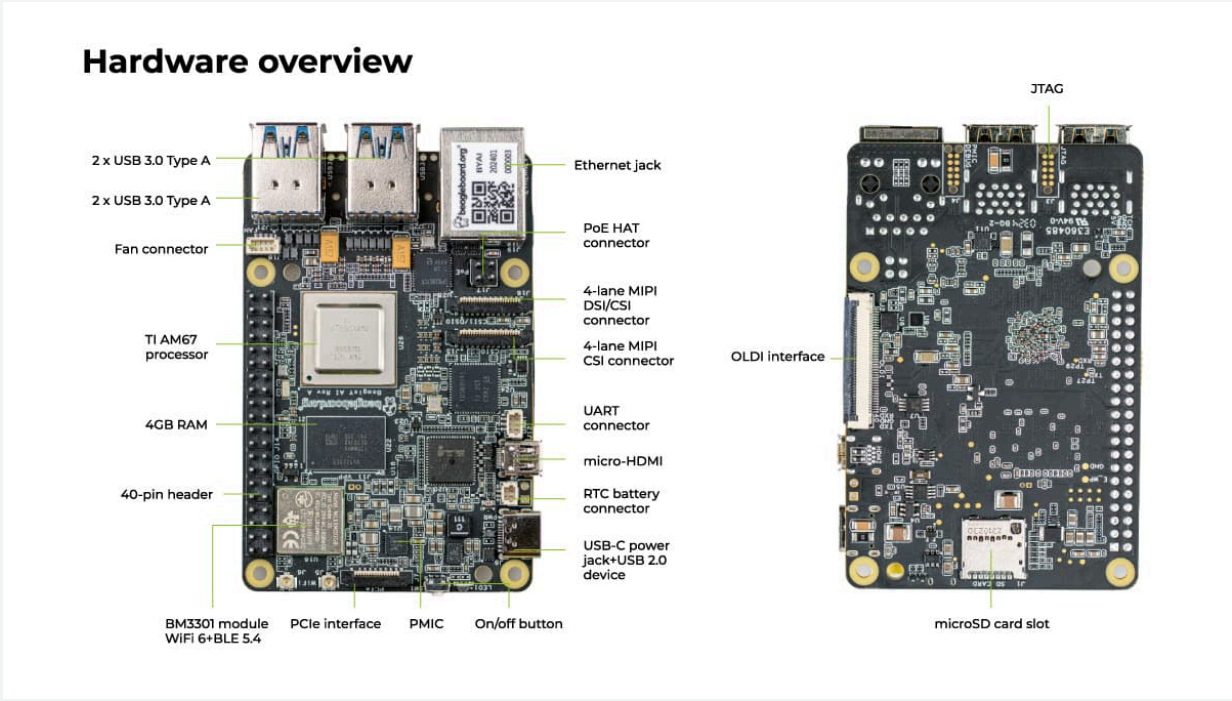


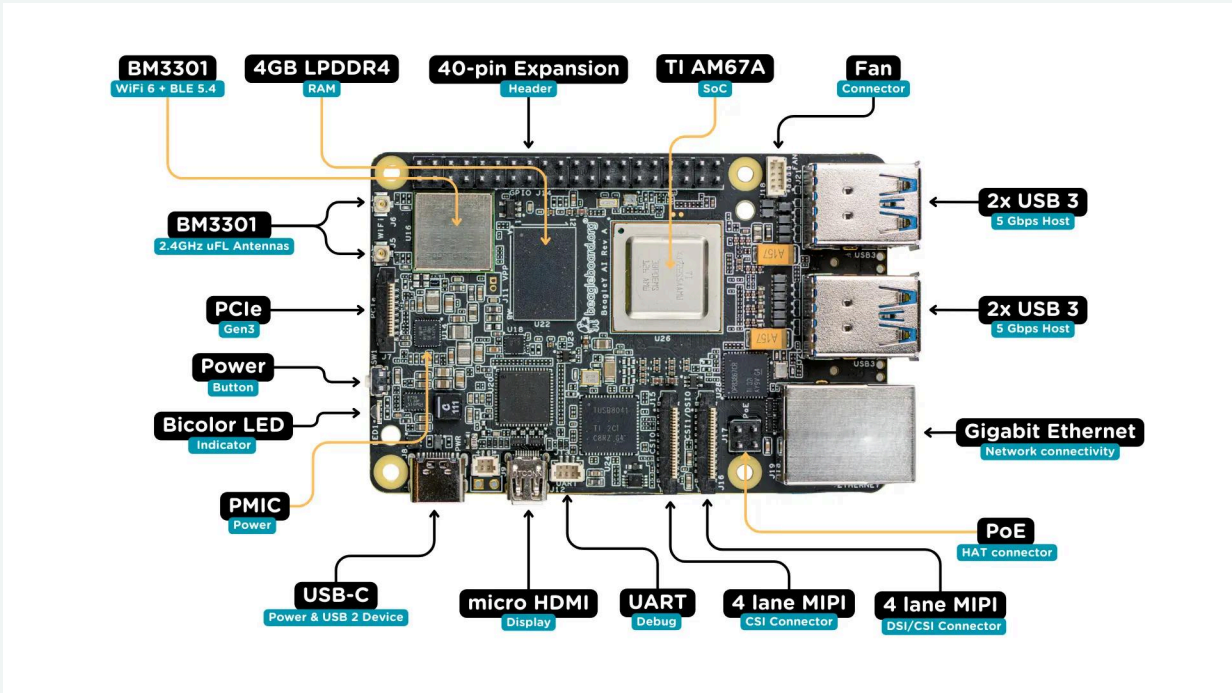


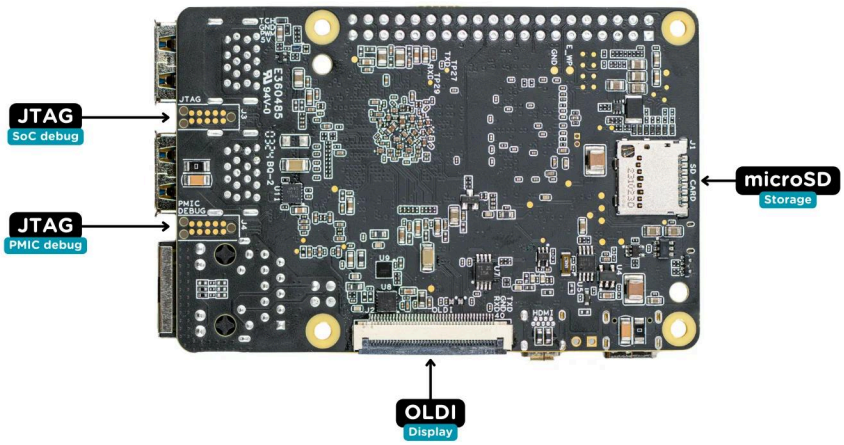




Hardware Overview







Applications

- Application
- Robotics
- Factory and Building Automation
- Test & Measurement
- Medical
- Human-Machine Interfaces (HMIs)
- Intelligent Vision (Image Classification/Object Detection/Semantic Segmentation)

Resource Links

- https://www.seeedstudio.com/BeagleYr-AI-beagleboard-orgr-4-TOPS-AI-Acceleration-powered-by-TI-AM67A.html
- beagley-ai.org
- Getting-started-with-your-BeagleY-AI
- BeagleY-AI Debian 12.5 2024-06-19 XFCE

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