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INDUSTRIAL PRODUCT DATASHEET

reComputer AI Industrial R2135-12 - The World's Most Powerful Raspberry Pi AI Box

It's a compact edge AI system powered by Raspberry Pi CM5 and 26 TOPS Hailo-8 AI acceleration, equipped with a ready-to-use model zoo and tool chain.

SKU	UPDATED	PRICE
114993595	2026-11-23 09:28:07	$433.00(Excl. VAT)



Overview



It's a compact edge AI system powered by Raspberry Pi CM5 and 26 TOPS Hailo-8 AI acceleration, equipped with a ready-to-use model zoo and tool chain. Built for 24/7 reliability, with versatile interfaces, watchdog, -20°C to 65°C temperature range, this solution brings powerful AI computing to the edge.

Key Features

01 **Powerful Performance with Raspberry Pi CM5 Module**

2.4GHz quad-core 64-bit Arm Cortex-A76 & VideoCore VII GPU.Featuresupto16GBRAM.

02 **AI-Optimized Computing**

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

03 **Rich Connectivity**

2 x HDMI, 1 x Gigabit Ethernet, 2 x USB 3.2 Type-A, 1 x USB 2.0 Type-C. 2 Slot for SSD storage and AI acceleration.

04 **Advanced Video Processing**

4k 60fps H.265 decoder supporting 2-8 real-time (720p)multi-stream inferences for object detection and tracking.

05 **Enhanced IndustrialReliability**

Includes additional PoE, 4G/LoRa, TPM, and RTC.

Product Gallery
















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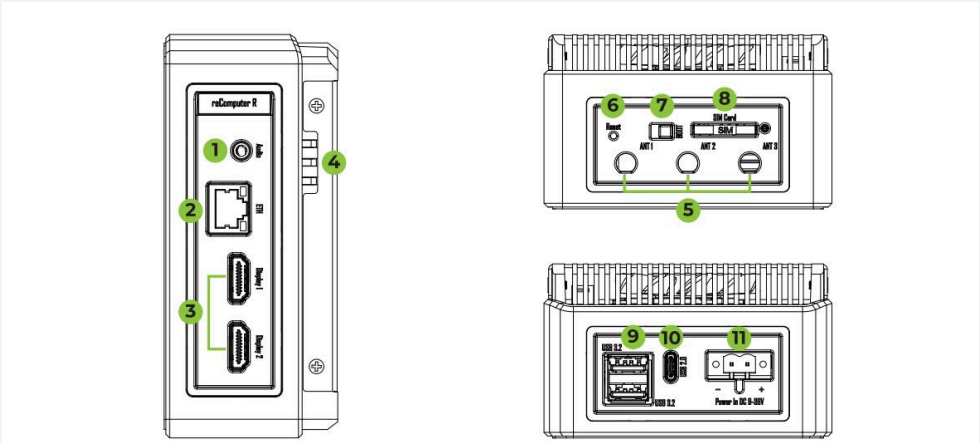
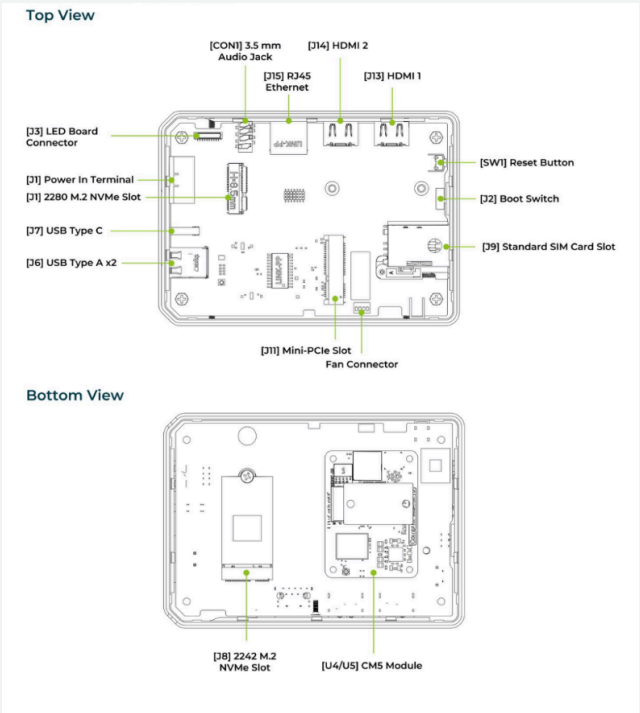
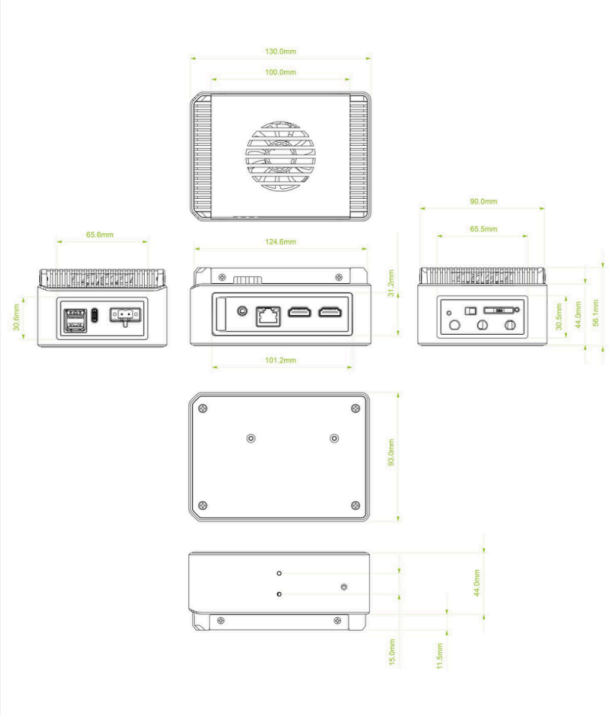
56 mm
131 mm
94.5 mm

Hardware Overview



1. 3.5mm Audio Jack
2. 1000M Ethernet
3. 2x Standard HDMI
4. LED
5. 3 x Reserved Antenna Ports for Wireless
6. Reset Hole
7. Boot Switch
8. Standard SIM Card Slot
9. 2 x USB-A 3.2 Host
10. Serial Console
11. Power In





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-Industrial-R2135-12-p-6432.html
- reComputer User Manual
- SeeedreComputerAIRSeriesFlyer
- SeeedRasperryPiFlyer
- SeeedreComputerAIRSeriesFlyer-CN
- Seeed Raspberry Pi Flyer-CN

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