seeed studio

INDUSTRIAL PRODUCT DATASHEET

reComputer Industrial RK3576 | 8GB RAM, 64GB eMMC | Rockchip Open Industrial Edge AI Box

The reComputer Industrial RK3576 | 8GB RAM, 64GB eMMC | Rockchip Open Industrial Edge AI Box is a fanless, 9–36V DC wide-voltage edge AI box for industrial vision inspection, industrial data acquisition & gateway, and...

SKU	UPDATED	PRICE
100094701	2026-11-09 02:54:37	$339.00(Excl. VAT)



Overview



The reComputer Industrial RK3576 | 8GB RAM, 64GB eMMC | Rockchip Open Industrial Edge AI Box features an octa-core CPU (4× Cortex-A72 @ 2.2GHz + 4× Cortex-A53 @ 2.0GHz), ARM Mali-G52 MC3 GPU, fanless passive cooling, compact metal enclosure, and 9–36V DC wide-voltage input. It supports local AI workloads—including YOLO11@77.9FPS (640*640) vision CNN, deepseek-r1-distill-qwen 7b LLM, qwen2.5-vl 3b VLM, whisper_base_20s STT, and mms_tts_eng_200 TTS—and provides RS485, CAN FD, and digital I/O connectivity for industrial vision inspection, industrial data acquisition & gateway, and equipment & energy monitoring.

Key Features

01 **Advanced Processing Subsystem**

Octa-core CPU architecture featuring 4× Cortex-A72 @ 2.2GHz + 4× Cortex-A53 @ 2.0GHz, paired with an ARM Mali-G52 MC3 GPU to handle demanding multi-threaded industrial control and automation tasks.

02 **Flexible Hardware Configurations (Optional)**

Available in multiple memory and storage combinations to perfectly align with your specific edge workload requirements:

03 **Memory**

4GB / 8GB LPDDR5 (Scalable up to 16GB).

04 **Storage**

32GB / 64GB eMMC(Scalable up to 128GB).

05 **Vision CNN**

YOLO11@77.9FPS(640*640)

06 **LLM**

capable for deepseek-r1-distill-qwen 7b support

07 **VLM**

capable for qwen2.5-vl 3b

08 **STT**

whisper_base_20s (RTF 0.218) with real-time processing support

09 **TTS：mms_tts_eng_200 （RTF 0.069) with real-time processing support**

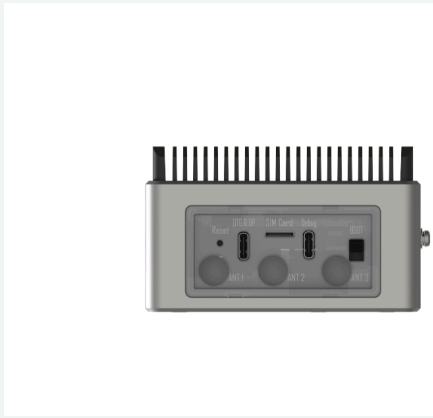
10 **Fanless Passive Cooling**

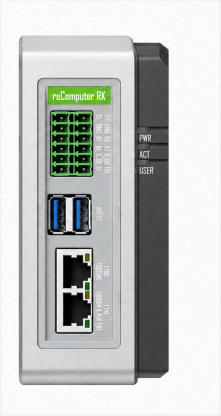
11 **Compact Metal Enclosure**

12 **9–36V DC Wide-Voltage Input**

Product Gallery









Applications

- **Industrial Vision Inspection:** Run local AI vision workloads for object detection, classification and automated inspection.
- **Industrial Data Acquisition & Gateway:** Connect field devices through RS485, CAN FD and digital I/O, process data locally and forward it to upper-level systems.
- **Equipment & Energy Monitoring:** Monitor machine status, meter data and operating conditions with local data processing and logging.

Resource Links

- https://www.seeedstudio.com/reComputer-Industrial-RK3576-0864-p-7015.html
- Rockchip RK3576 Datasheet

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