RZ/V2M Evaluation Board Kit

Real-time Vision-AI with the embedded device

This product is an evaluation board with vision AI MPU,RZ/V2M made by Renesas Electronics configured as the key device. It is optimal as a development platform board for various fields of embedded devices for images captured from the camera.

Features

The kit includes the CMOS image sensor equipped board. With that, the evaluation of the vision AI can easily be done.

Software/Tool

Renesas Electronics Corporation

- RZ/V2M DRP-AI Support Package
- RZ/V2M ISP Support Package
- RZ/V2M Linux Package
- DRP-AI Translator
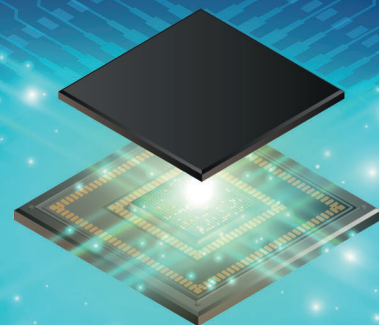
Application areas

Surveillance security

Retail
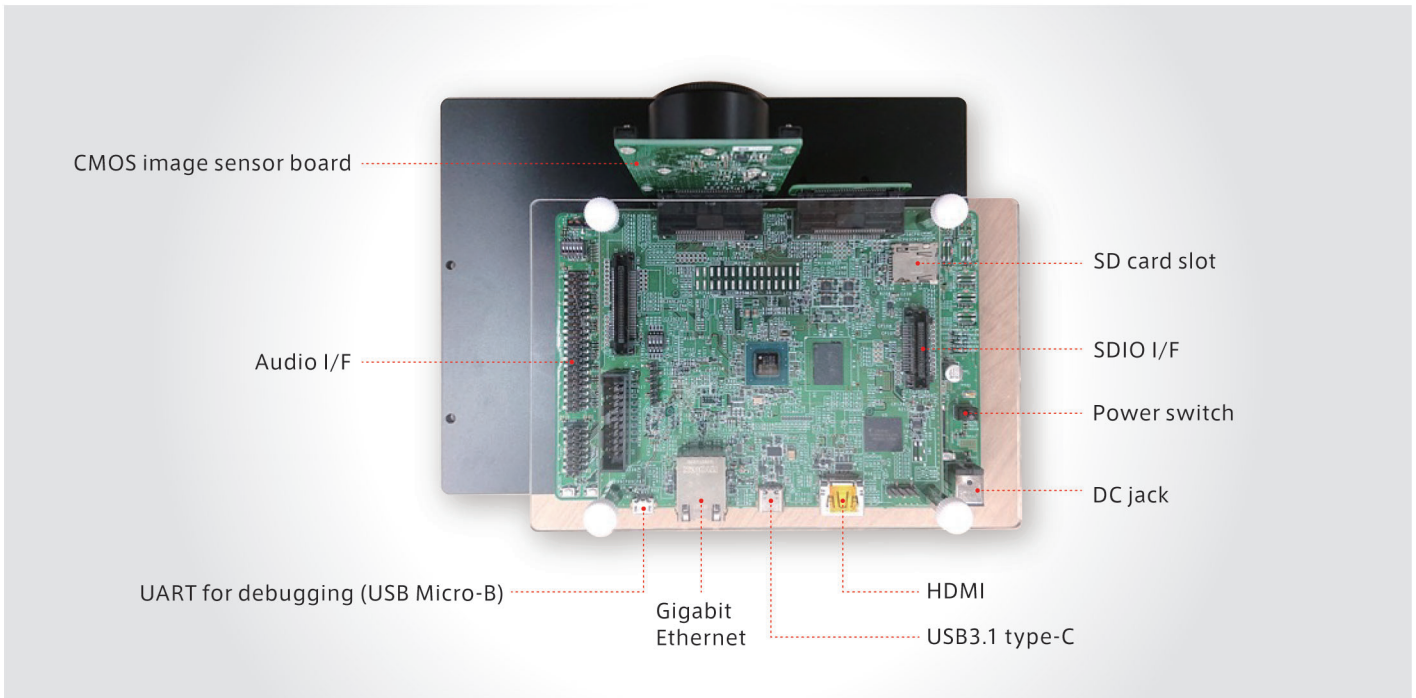
Office Automation(OA)

Industrial automation

Robotics

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RZ/V2M Device features

Internal CPU	Arm®Cortex®-A53 Dual Core Max 1GHz
Memory I/F	LPDDR4-3200
Vision/AI	AI Accelerator: DRP-AI (1.0 TOPS/W class)
	Image Signal Processor (ISP)
	Camera Interface: MIPI® CSI-2
	Human/Face detection engine
Video/ Graphics/ Display	H.265/H.264 Multi-codec
	Encode: H.265 Max2160p30, H.264 Max1080p60
	Decode: H.265 Max2160p30, H.264 Max1080p60
	2D Graphics Engine
	Display: HDMI® Tx 1.4a

High-speed I/F	Gigabit Ethernet ×1
	USB3.1 Gen1 Host/Peripheral ×1
	PCIe® Gen2 (2 lanes) ×1
	(RZ/V2M Evaluation Board Kit not equipped)
	SDC/SDIO ×2
	eMMC™ 4.5.1 ×1
Package	FCBGA (15×15mm, 0.5mm pitch)

RZ/V2M EVK Specifications (input/output)

- CMOS image sensor board
- Audio I/F
- UART for debugging (USB Micro-B)
- Gigabit Ethernet
- USB3.1 type-C
- HDMI
- DC jack
- Power switch
- SDIO I/F
- SD card slot

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