

RZ Ecosystem Partner Solution

MYZR RZ System On Modules



Solution Summary

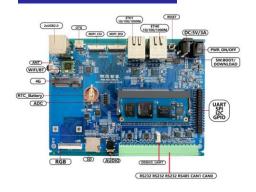
MYZR developed five system on modules (SOM) embedded with different Renesas RZ high-end processors (MPU) to meet the various market needs. All SOMs provide rich communication interfaces including but not limited to Ethernet, UART, SPI, I2C, CANFD and PWM interfaces to connect to peripheral devices such as WLAN, Bluetooth, GPS, 4G internet modules, and cameras.

- MYZR-V2H-EK320 embedded with <u>RZ/V2H</u> 64bit processor, quad-core Arm®Cortex-A55@1.8GHz, dual Cortex-R8 and Cortex-M33, DRP-Al3 NPU providing up to 8TOPS @dense, supporting graphics accelerator, four MIPI-CSI camera input with ISP.
- 2. MYZR-RZG2L-EK200 embedded with <u>RZ/G2L</u> 64-bit processor, dual-core Arm® Cortex-A55@1.2GHz and sub-core Cortex-M33 were integrated, supporting graphics accelerator, encoding and decoding capabilities.
- 3. MYZR-RZG2UL-EK200 embedded with <u>RZ/G2UL</u> 64-bit processor, single-core Arm® Cortex-A55@1.0GHz and sub-core Cortex-M33 were integrated, supporting ISU, MIPI-CSI, RGB display.
- 4. MYZR-RZA3UL-EK200 embedded with <u>RZ/A3UL</u> 64-bit Arm® Cortex-A55@1.0GHz processor, the RTOS operating system is ideal for systems requiring fast response time.
- 5. MYZR-RZFIVE-EK200 embedded with <u>RZ/Five</u> 64-bit processor, single RISC-V AX45MP@1.0 GHz was integrated, PIN compatible with RZ/G2UL.

Features/Benefits

- Family products by offering 5 kinds of SoM modules plus embedded EVK board.
- Optional embedded Linux and ROTS for both real-time and non-real-time applications.
- Provides solutions for hardware migration between ARM and RISC-V architectures.
- · Ultra high-cost performance.

Diagrams / Graphics





Target Markets and Applications

- Human Machine Interface (HMI)
- Industrial automation
- Transportation
- · Smart city, Smart home
- Machine vision
- Al processor

www.myzr-tech.com/renesas-rz-development-board/



SoM Key Feature List **Picture** MYZR-FIVE-CB200 MYZR-G2L-CB200 MYZR-G2UL-CB200 MYZR-A3ULCB200 MYZR-V2H-BB320 **Processor** RZ/G2L RZ/G2UL RZ/A3UL RZ/FIVE RZ/V2H 4x Cortex-A55 2x Cortex-A55 1x Cortex-A55 Andes-CPU 1x Cortex-A55 2x Cortex-R8 Cortex-M33 Cortex-M33 AX45MP 1x Cortex-M33 Frequency 1.2GHz 1.0GHz 1.0GHz 1.0GHz 1.8GHz **GPU** / / ARM-Mali-G31 / ARM-Mali-G31 H.264/MVC,IS H.264/265 Enc **VPU** ISU ISU ISP, ISU, VCD **DDR** 1/2GB 1/2GB 1/2GB 1/2GB 4-16GB 8GB 8GB 8GB 8GB 8-16GB Storge Up to 64GB Up to 64GB Up to 64GB Up to 64GB Kernel Linux 5.10 Linux 5.10 FreeRTOS Linux 5.10 Linux5.10 **GUI** QT5.6 QT5 GUI / QT5 Temperature -40°C to +85°C Power 3.6V 3.6V 3.6V 3.6V 3.6V Supply 67.6 x 26.1mm Size 67.6 x 26.1mm 67.6 x 26.1mm 67.6 x 26.1mm 60 x 46mm

Contact us: https://www.myzr-tech.com/contact-us