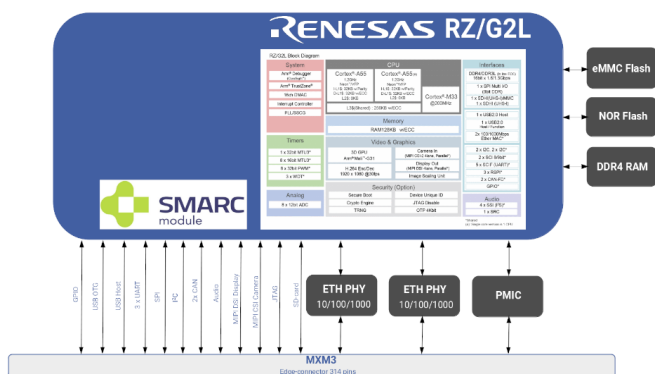# RZ Ecosystem Partner Solution
Aries MRZG2LS

Solution Summary

The MRZG2LS is a SMARC V2.1 compliant System-on-Module developed based on Renesas RZ Family architecture offering high-performance for embedded systems. The [RZ/G2L](#) has many interfaces such as camera input, display output, USB 2.0, and Gigabit-Ethernet, making it ideal for applications such as entry-class industrial human-machine interfaces (HMIs) and embedded devices with video capabilities.

Features/Benefits

- Single or Dual Cortex-A55, up to 1GHz
- Optional AI accelerator; DRP-AI on MRZV2L
- 3D Graphics engine (Arm Mali-G31)
- Video Codec (H.264), Cortex-M33 512MB – 4GB DDR4 RAM
- SPI NOR, 4GB-64GB eMMC NAND Flash

- Dual 10/100/1000MBit Ethernet with PHY
- USB2.0 Host/OTG, 2x CAN, UART, I2C, SPI, ADC
- Camera interface MIPI-CSI
- Display interface MIPI-DSI
- Commercial (0°C...+70°C) / industrial (-40°C...+85°C) temperature range supported

Block Diagram/Graphics

Target Markets and Applications

- IoT
- Industrial controls
- Mobile applications

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