

RZ Ecosystem Partner Solution

SoMLabs VisionSOM-V2L



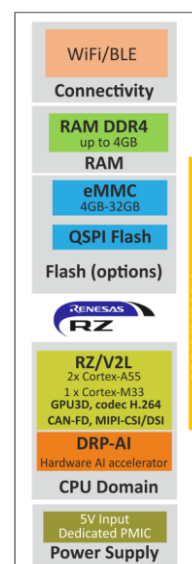
Solution Summary

The VisionSOM-V2L is a small size, and energy-efficient SoM (System on Module) equipped with dual core, heterogenous [RZ/V2L](#) MPU with hardware AI accelerator. The VisionSOM-V2L has high-speed communication interfaces such as dual USB2.0 and Gigabit Ethernet, dual CAN-FD, and many multimedia functions including 3D graphics engine with Arm Mali-G31 and video codec (H.264), making it ideal for applications such as industrial HMI and embedded devices with video capabilities.

Features/Benefits

- Heterogenous Arm Cortex®-A55 Dual core RZ/V2L @1.2GHz + Cortex-M33 @200MHz
- Built-in AI accelerator DRP-AI
- Equipped with eMMC and DDR4 memory
- Equipped with on-board WiFi/BT-BLE and antenna connector
- Edge Connector Features (Dual Giga Ether, USB, MIPI-DSI/MIPI-CSI, CAN, UART/SPI/I2C serial communication, on-board ADC)
- Small SODIM200 footprint (67x32 mm)
- Carrier Board and Linux BSP available

Diagrams/Graphics



Target Markets and Applications

- Industrial monitoring systems
- Medical devices
- Smart city (Edge devices)
- Intelligent cameras
- UAVs
- EV sub systems



Single Board Computers (SBC), System on Modules (SOM) designer and manufacturer - SoMLabs



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