

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 <u>RZ/V2L</u> 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

WiFi/BLE Connectivity RAM DDR4

RAM

QSPI Flash

Flash (options)

RZ/V2L

CAN-FD, MIPI-CSI/DS DRP-AI ardware AI accelerate CPU Domain

Power Supply

BZ

- 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

https://somlabs.com/product/visionsom-v2l-sls22/



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

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