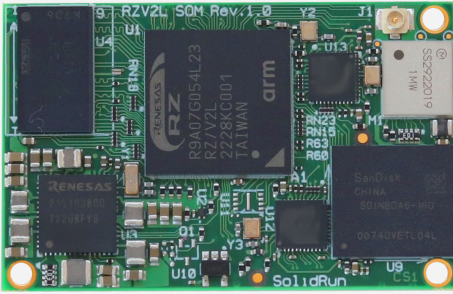


RZ/V2L SOM

2 x Arm Cortex-A55, 1 x Cortex-M33, 1.2 GHz

Renesas RZ/V2L Processor System on Module

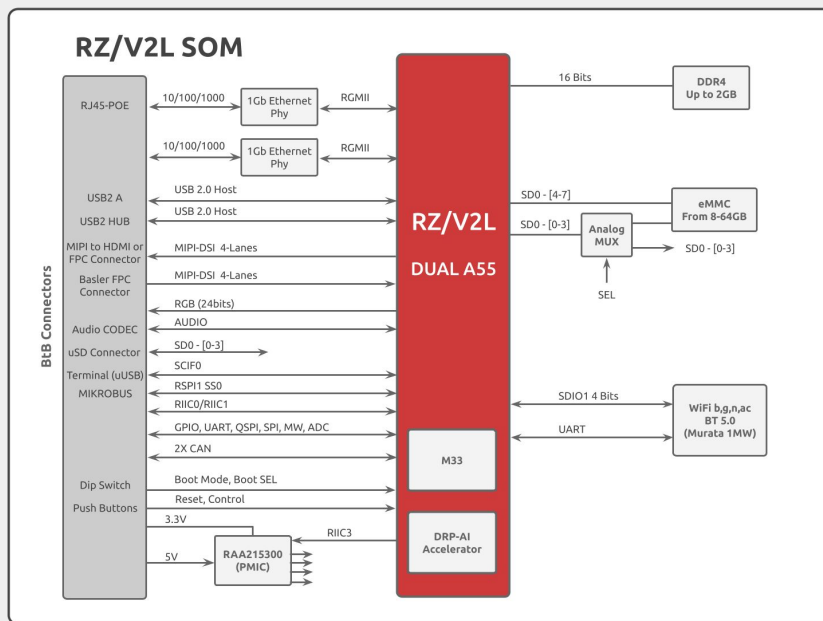


- Dual core Arm Cortex A55, 1.2GHz + Cortex M33
- Onboard Certified Dual Band WiFi 802.11 a/b/g/n/ac with Bluetooth 5.0
- Built-in DRP-AI accelerator
- Pin to Pin compatible with [RZ/G2L](#) application processor
- Short lead time with a stable supply chain



| | | RZ/V2L |
|--------------|--------------------------|---|
| CPU Details | CPU Name | Renesas RZ/V2L |
| | CPU Type | 2 x Cortex A55 1 x Cortex M33 DRP-AI accelerator |
| | CPU Speed | 1.2 GHz |
| | Floating Point | ✓ |
| | SIMD | ✓ |
| RAM | RAM | 2GB DDR4 default, optional: 1GB DDR4 |
| | Internal Storage | 16GB eMMC default, optional: up to 64GB eMMC |
| | External Storage Support | SD (*) USB 2.0 (*) |
| Networking | Ethernet | Up to 2 x 10/100/1000 Mbps phy on board |
| | Wireless | 802.11 b/g/n/ac + BT 5.0 |
| Multimedia | GPU | Arm Mali-G31- 500 MHz |
| | 3D GPU Support | OpenGL ES1.1 / 2.0 / 3.0 / 3.1 and 3.2 Supported OpenCL 2.0 Full Profile Supported |
| | AI Accelerator | DRP-AI |
| | Video Decoder | H.264 1920x1080 @ 30 fps |
| | Video Encoder | H.264 1920x1080 @ 30 fps |
| | Display Interfaces | 1 x MIPI-DSI, LVDS, RGB |
| Connectivity | Camera Interface | 1 x MIPI-CSI-2, support 5MP, 30 fps |
| | USB 2.0 | 2 |
| | I2C | 3 |
| | SPI | 2 |
| | UART | 3 |
| | GPIO | ✓ |
| | PWM | ✓ |
| | CAN | 2 |
| | SD/MMC | Up to 2 |
| JTAG | Test point header | |
| OS Support | Embedded Linux | Linux |
| Physical | Size | 47 x 30 mm |
| | Interface | 3 x Hirose DF40 connectors |
| Power | Main Voltage | 5V |
| | I/O Voltage | 3.3V |
| Environment | Temperature | Commercial: 0°C to 70°C Industrial: -40°C to 85°C |
| | Humidity | Humidity (Non-condensing): 10% – 90% |

(*) Only available if WiFi or eMMC options are omitted.



Ordering Information

Available on Shop

| Description |
|-------------|
| |

- To choose your ideal configuration see our [Product Configurator Tool](#)

Kits

| Description |
|-------------|
| |

For more information about the RZ/V2L SOM Software/Hardware visit our:

[Developer Center](#)