

# RZ/V2L SOM

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

# Renesas RZ/V2L Processor System on Module

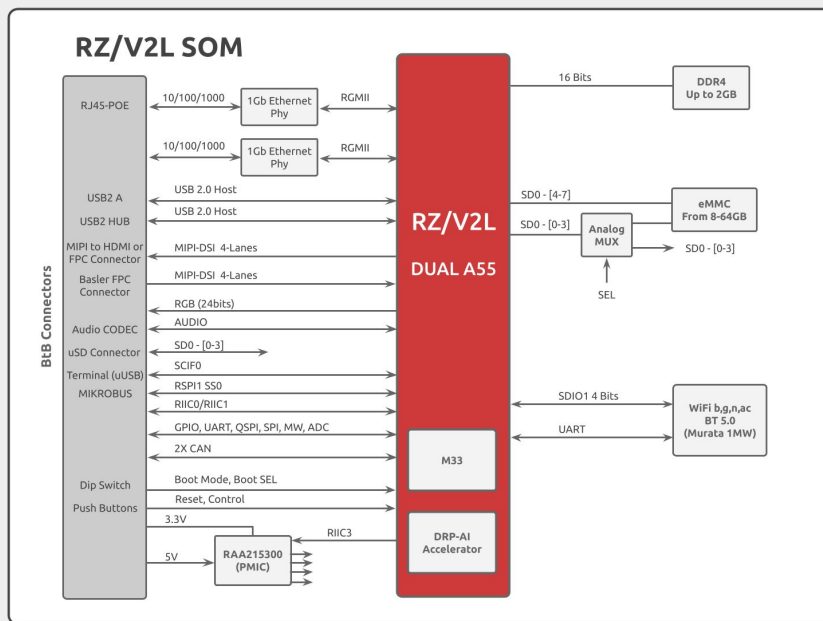


- Dual core Arm Cortex A55 up to 1.2GHz + Cortex M33
- Onboard Certified Dual Band WiFi 802.11 a/b/g/n/ac with Bluetooth 5.0
- Built-in DRP-AI accelerator
- Pin to Pin compatible with RZ/G2L application processor
- Short lead time with a stable supply chain



		RZ/V2L
CPU Details	CPU Name	Renesas RZ/V2L
	CPU Type	2 x Arm Cortex-A55, 1 x Cortex-M33 DRP-AI Accelerator
	CPU Speed	Up to 1.2 GHz
	Floating Point	✓
	SIMD	✓
RAM	RAM	Up to 2GB DDR4 with inline ECC
	Internal Storage	4-64GB eMMC QSPI
	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
	AI Accelerator	DRP-AI
	Video Decoder	H.264 1920x1080 @ 30 fps
	Video Encoder	H.264 1920x1080 @ 30 fps
	Display Interfaces	1 x MIPI-DSI
Camera Interface	1 x MIPI-CSI-2	
Connectivity	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	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](#)