

RZ/G2UL SoM Comparison Chart

CPU Name	<u>Renesas RZ/G2UL</u>	<u>Renesas RZ/G2LC</u>	<u>Renesas RZ/G2L</u>	<u>Renesas RZ/V2L</u>
CPU Type	1 x Cortex A55 1 x Cortex M33	2 x Cortex A55 1 x Cortex M33	2 x Cortex A55 1 x Cortex M33	2 x Cortex A55 1 x Cortex M33 DRP-AI Accelerator
RAM	1 GB DDR4 default, optional: 512 MB up to 2 GB DDR4	1 GB DDR4 default, optional: 512 MB up to 2 GB DDR4	1 GB DDR4 default, optional: 2 GB DDR4	2 GB DDR4 default, optional: 1 GB DDR4
Internal Storage	8 GB eMMC default, optional: Up to 64 GB eMMC	8 GB eMMC default, optional: Up to 64 GB eMMC	8 GB eMMC default, optional: Up to 64 GB eMMC	16 GB eMMC default, optional: Up to 64 GB eMMC
Ethernet	100BASE-T	100BASE-T	Up to 2 x 10/100/1000 Mbps phy on board	Up to 2 x 10/100/1000 Mbps phy on board
Wireless	802.11 a/b/g/n + BT 5.2	802.11 a/b/g/n + BT 5.2	802.11 b/g/n/ac + BT 5.0	802.11 b/g/n/ac + BT 5.0
GPU	None	Arm Mali-G31	Arm Mali-G31 - 500 MHz	Arm Mali-G31 - 500 MHz
3D GPU Support	None	OpenGL/CL 2.0	OpenGL ES 1.1/ 2.0/ 3.0/ 3.1 and 3.2 Supported OpenCL 2.0 Full Profile Supported	OpenGL ES 1.1/ 2.0/ 3.0/ 3.1/ and 3.2 Supported OpenCL 2.0 Full Profile Supported
AI Accelerator	-	-	-	DRP-AI
Video Decoder	None	None	H.264 1920x1080 @ 30 fps	H.264 1920x1080 @ 30 fps
Video Encoder	None	None	H.264 1920x1080 @ 30 fps	H.264 1920x1080 @ 30 fps
Display Interfaces	None	1 x MIPI-DSI	1 x MIPI-DSI, RGB	1 x MIPI-DSI, RGB
Camera Interface	1 x MIPI-CSI2	1 x MIPI-CSI-2	1 x MIPI-CSI-2 supported 5MP, 30 fps	1 x MIPI-CSI-2 supported 5MP, 30 fps
USB 2.0	2	2	2	2
USB 3.0	-	-	-	-
PCIe	-	-	-	-
I2C	3	3	3	3
SPI	2	2	2	2
UART	3	3	3	3
GPIO	✓	✓	✓	✓
PWM	✓	✓	✓	✓
CAN-FD	2 x CAN-FD	2 x CAN-FD	2 x CAN-FD	2 x CAN-FD
Size	47 x 30 mm	47 x 30 mm	47 x 30 mm	47 x 30 mm