RZ Ecosystem Partner Solution
Coosine RZ/G2L System On Module

Solution Summary
Coosine GX-G2L-QSB System on Module (SOM) consists of Renesas RZ/G2L 64-bit microprocessor, embedded with a Cortex-A55 (1.2GHz) CPU, 16-bit DDR3L/DDR4 interface, 3D graphics engine with Arm Mali-G31 and video codec (H.264). It also equipped with camera input, display output, USB2.0 and Gbit Ethernet, making it ideal for applications such as entry-class industrial HMI and embedded devices with video capabilities.

Features/Benefits
• CPU: Renesas RZ/G2L (64-bit MPU)
• Architecture: Cortex A55 x 2 + Cortex M33
• Frequency: 1.2GHz
• RAM: 16bit 4GB DDR4
• eMMC: 5.1 32GB
• Operating System: Linux

Diagrams / Graphics

Target Markets and Applications
• Human Machine Interface (HMI)
• Industrial Automation
• Transportation
• Smart City, Smart Home

http://www.coosine.com/pd.jsp?id=10#_jcp=2
Coosine RZ/G2L QSB (Back view):

**Figure 2: Back view RZ/G2L QSB board**

**SOM & Base Board Features:**

**SOM Module:**
- G2L applications processor w/ up to three cores
  - 2x Arm® Cortex®-A55
  - 1x Arm® Cortex®-M33

- DDR4-1600 16-bit 4GB
- eMMC 5.1, 32GB
- Power Management IC (PMIC)

**Base Board:**
- MicroSD 3.0 card slot
- One USB 2.0 MicroUSB connector
- One USB 2.0 Type-A connectors
- M.2 Key-E for Wi-Fi/BT
- One MIPI-CSI connector for camera
- Two CANFD port
- Two RS232 port
- JTAG HDR support
- Buzzer support

- Two 1 Gbps Ethernet
- x4 Lane MIPI DSI w/ CTP support
- Multiple Button support:
  - Power ON/OFF button
  - System reset button
- Audio CODEC support
- 4-CH ADC support
- External RTC w/ coin cell
- x2 UART to USB debug port
- 2x20 Pin Expansion I/O

Learn more:

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