RB-RZLC and RB-RZUL are compact Single Board Computers (SBCs) based on Renesas RZ/G2LC and RZ/G2UL microprocessors. The boards include complete wireless connectivity (Wi-Fi and Bluetooth) and on-board audio codec. RB-RZLC and RB-RZUL are targeted for applications where proven reliability, highly flexible networking and high-energy efficiency are key requirements.

**Solution Summary**

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**Features/Benefits**

- Single 1.0GHz or dual core 1.2 GHz Cortex-A55 + 200MHz Cortex-M33
- 1GB DDR4 SDRAM, 16GB eMMC, 128MB QSPI Flash, uSD connector
- Renesas DA16600MOD Wi-Fi 802.11b/g/n and Bluetooth v5.1
- Supports MIPI-CSI camera and 2-lane MIPI-DSI display
- Renesas DA7212 ultra-low power audio IC
- Gbit Ethernet, 2x USB 2.0, M.2 Key-B, PMOD host, Grove and 40 pin GPIO header
- Single 12V / 24V power supply

**Diagrams/Graphics**

- [Diagram of RB-RZLC / RB-RZUL Single Board Computer](image)

**Target Markets and Applications**

- Gateway
- Smart Metering
- Smart Camera
- Audio Networking
- Smart Management Systems
- Industrial Monitoring and Control

**RB-RZLC / RB-RZUL @ RELOC.it**

2022.10
RELOC provides customers with tailored end-to-end Internet-of-Things (IoT) solutions, starting from connected embedded devices to scalable cloud storage and services, exploiting reliable communications and deploying cross-platform mobile applications.

We support our customers by building solutions tailored on their specific needs, providing:

• Technology scouting
• Design of embedded hardware, based on a wide range of technologies (MCU, MPU, FPGA, DSP)
• Development of embedded firmware based on simple schedulers or multi-thread RTOS
• Focus on wireless connectivity, for industrial and consumer IoT, based on any radio protocol (BLE, ZigBee, Wi-Fi, Thread, 6LoWPAN, sub-GHz, cellular 2G/3G/LTE, LoRa, etc.)
• Integration with cloud services and mobile APPs to collect and process gathered data
• Support for test plan definition and certification process.

Why you should connect your products to the internet?

1. Engage your customers with new services
2. Save resources and stay competitive
3. Collect market data to optimize products
4. Create innovative product lines