

## RZ Ecosystem Partner Solution Alpha Project αSMARC-RZ/G2E



### Solution Summary

The αSMARC-RZ/G2E is a SoM (System on Module) for mass production that is equipped with the “[RZ/G2E](#)” MPU manufactured by Renesas Electronics and conforms to the SMARC 2.1 standard. The αSMARC-RZ / G2E has high-speed interfaces such as USB3.0, PCI Express, and Gigabit Ethernet, and many functions such as LCD and AUDIO, making it ideal for applications such as industrial HMI.

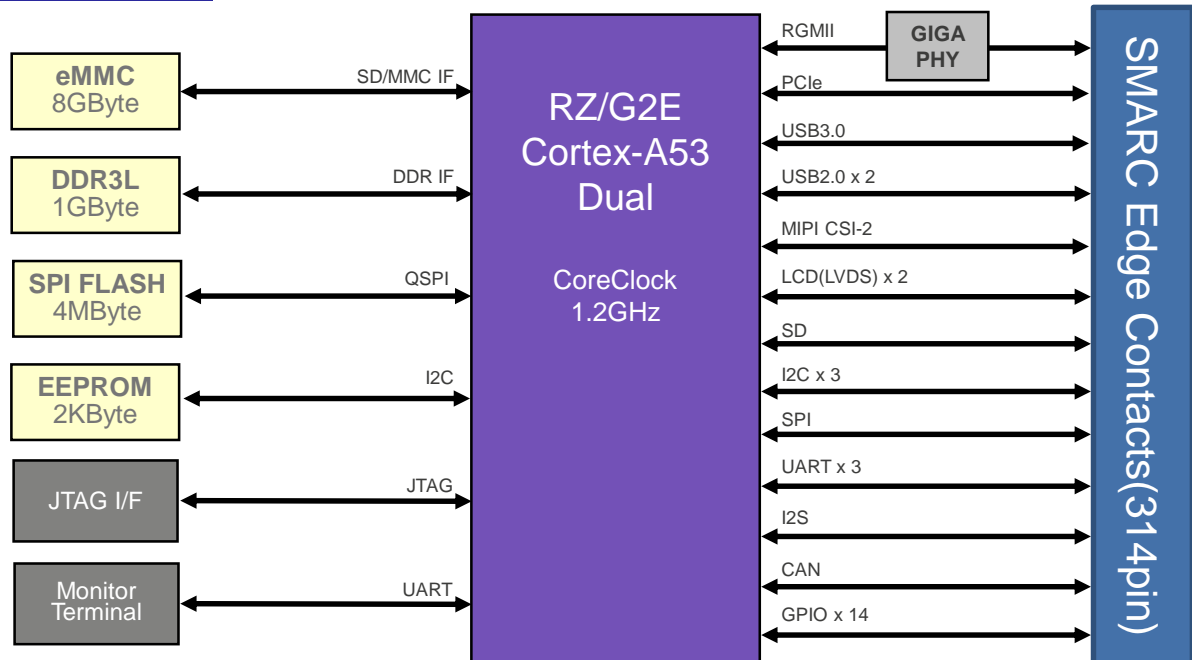
### Features/Benefits

- Arm Cortex®-A53 Dual core RZ/G2E 1.2GHz
- Supports Full HD compatible video encoding/decoding
- Equipped with eMMC and DDR3L memory
- Edge Connector Features (USB3.0/PCIe/GigaEther/LCD/AUDIO/CAN)
- SMARC 2.1 compatible (Board size 82mm x 50mm)
- CarrierBoard and Linux BSP available



αSMARC-RZ/G2E

### Diagrams/Graphics



### Target Markets and Applications

- Industrial Controls
- Smart Home
- Home Appliance
- Smart Buildings
- Medical Devices
- Consumer Electronics

Alpha Project provides small board computers for embedded devices equipped with microprocessors manufactured by Renesas Electronics Corporation as its own brand products. Our CPU boards have a large variety of product line up are designed for prototyping, evaluation, and small-lot production of IoT devices, robots, measuring instruments, and industrial equipment. They are also used in a wide range of fields, such as training equipment for applications and embedded software, and teaching materials for various educational institutions. There are also peripherals such as wireless LAN and CMOS cameras, debuggers, and software development support tools for embedded devices. We are striving to provide a one-stop products necessary for the development. We will continue to offer products that meet the needs of our customers and propose the higher added value of solutions.

### RA Alpha board Series



RA6M3



RA6M5



S3A7



S5D9



S7G2



RL78/G1D

### RZ Alpha board Series



RZ/A1H



RZ/A1H



RZ/A2M



RZ/T1



RZ/N1D



RZ/G1E

### RX Alpha board Series



RX72N



RX72M



RX71M



RX65N



RX64M



RX63N

### SuperH Alpha board Series



SH7144



SH7211



SH7216



SH7269



SH7780B



SH7734

In addition to the above, we also have a variety of CPU boards. For more information, please visit our website.

URL: <https://www.apnet.co.jp/>  
e-mail: [sales@apnet.co.jp](mailto:sales@apnet.co.jp)