



iWave's RZ/G1E SODIMM development kit incorporates RZ/G1E SODIMM SOM which is based on Renesas power efficient Dual core ARM Cortex A7 CPU cores operating @1GHz speed. The development board can be used for quick prototyping of various applications targeted by the RZ/G1E processor. With the 100mm x 72 mm Pico ITX size, the kit is highly packed with all the necessary on-board connectors to validate the RZ/G1E CPU features.

APPLICATIONS: HMI & Access Control, Digital Signage, Industrial Control, IOT gateway, Healthcare devices, Point of sale, Network & high vision camera, Home & Office automation and White goods & appliances.

iW-RainboW-G22D-SODIMM HIGHLIGHTS

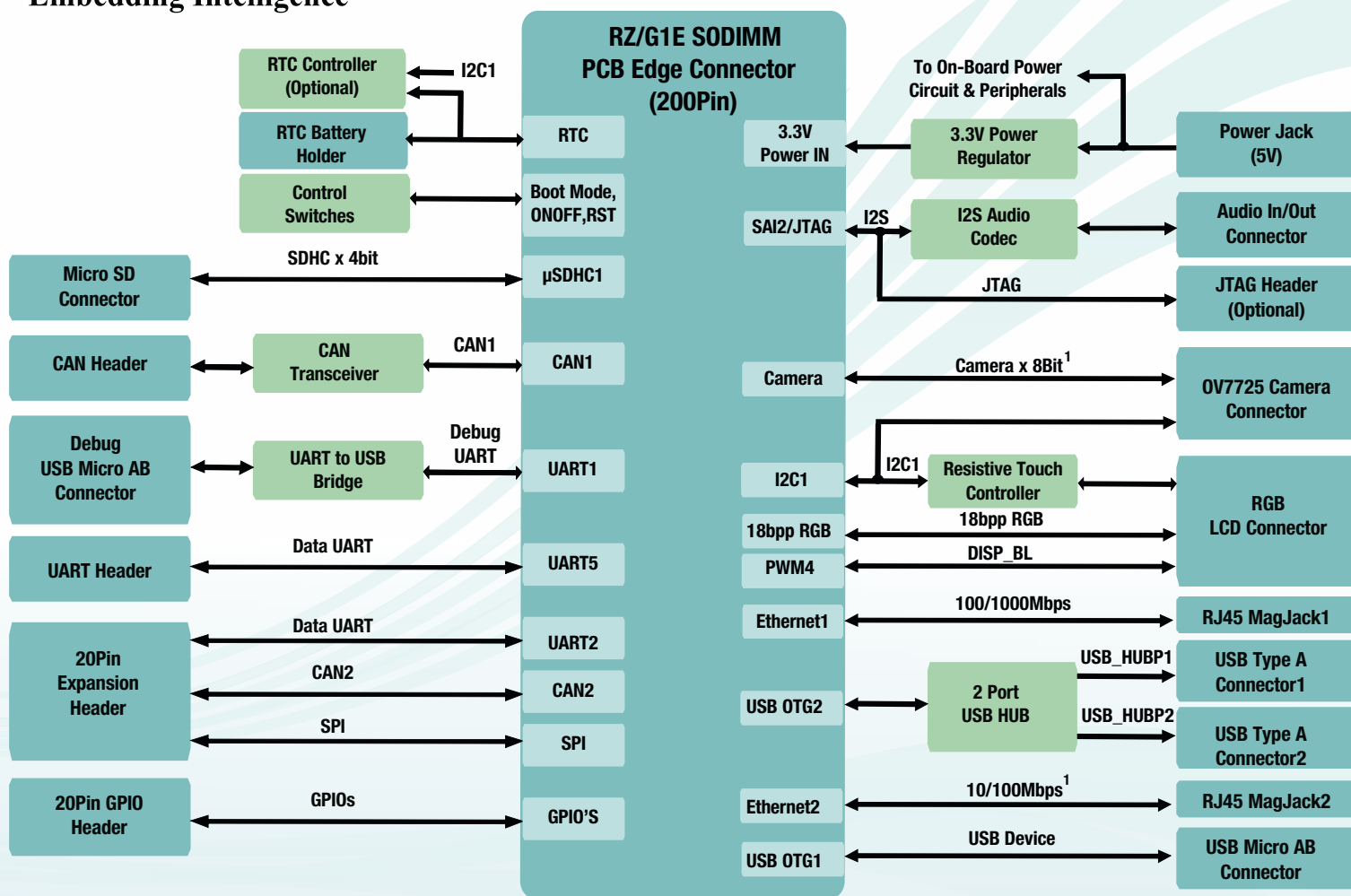
- Dual Core ARM Cortex-A7 @ 1GHz
- Hardware HD encode & decode
- Built in SGX540 3D Graphic acceleration
- 4.3" display kit with resistive touch screen
- Ultra-compact form size 100mm x 72mm

SPECIFICATIONS

RZ/G1E SODIMM SOM:	Data UART - 1 Port
Renesas's RZ/G1E CPU @ 1GHz	CAN PHY - 1 Port
SGX540 Graphics core @ 260MHz	Serial console on USB Port
512 MB DDR3	IO expansion headers
4GB eMMC Flash	JTAG header
100/1000 Ethernet PHY	Power Supply:
10/100 Ethernet PHY ¹	5V@2A DC Input
Micro SD Slot	Operating Temperature:
SODIMM Carrier board:	0°C to 60°C
Gigabit Ethernet - 1 Port	OS Support:
USB 2.0 host - 2 Ports	Linux 3.10.31
USB2.0 device - 1 Port	Form Factor: 100mm x 72mm
SD Slot - 1 Port	HDMI Daughter Board:
8-bit CSI Camera - 1 Port ¹	ADV7511 HDMI Transmitter
Audio Codec, In/Out Jack	HDMI Output - 1 Port
RGB display - 1 Port	CAN PHY - 2 nd Port
Resistive touch controller	RS232 - 3 Ports

Note 1: 2nd Ethernet and 8-bit camera interface is multiplexed in the RZ/G1E CPU. At a time anyone can be used.
By default 8-bit camera interface is supported in the development kit.

RZ/G1E SODIMM Carrier Board - BLOCK DIAGRAM



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OS SUPPORT

Linux 3.10.31

DELIVERABLES

RZ/G1E SODIMM Development kit
Board Support Package
User Manual

OPTIONAL KITS/Modules

4.3" RGB display Kit
Camera Module
HDMI Daughter Board

CUSTOM DEVELOPMENT

BSP Development/OS Porting
Custom SOM/Carrier Development
Custom Application/GUI Development
Design Review and Support

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise has brought out multiple SOMs based on ARM NXP, Intel Atom, Marvell and TI Processors.

iWave System has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

*Optional items not included in the standard deliverables.

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.



Ordering the RZ/G1E SODIMM Development Kit

The device can be ordered online from the iWave Website
<http://www.iwavesystems.com/webforms>

Or from our Local Partners in your region

<http://www.iwavesystems.com/about-us/business-partner.html>

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