

i.Core RZ/G2E

i.Core RZ/G2E is based on the new Renesas® RZ/G2E processor equipped with a dual-core A53. The new module offers very high performance, real-time capabilities and more. The wide range of peripherals makes this SOM suitable for many different applications.



HIGHLIGHTS









- Powerful dual core A53
- Low power consumption
- Suitable for fan-less application with high-end graphics performances








APPLICATIONS



FEATURES



	CPU	Renesas® RZ/G2E
	CORES	Dual-Core Arm® Cortex® -A53 @ 1.2GHz L1, CoRES L2 Parity/ECC
	MEMORY	1GB LPDDR3L
	GRAPHICS	PowerVR GE8300 @ 600MHz Ultra HD deep color GPU Support APIs: OpenGL ES 3.1, (OpenCL 1.2 EP)
	VIDEO INTERFACES	<ul style="list-style-type: none"> • LVDS 18/24bit up to Full HD • MIPI-CSI - 2 lanes
	VIDEO PROCESSING	<ul style="list-style-type: none"> • 1080p60 HEVC (h.265, h.264/AVC) dec • 1080p60 (h.264/AVC) enc
	AUDIO	<ul style="list-style-type: none"> • I²S interface
	NETWORKING	Gb Ethernet interfaces

	USB	<ul style="list-style-type: none"> • USB OTG 2.0 • USB HOST 2.0/3.0
	MASS STORAGE	<ul style="list-style-type: none"> • Starting from 4GB eMMC drive soldered on-board
	PERIPHERAL INTERFACES	UART, I ² C, SPI, CAN, SDIO/SDHC, TPM 2.0 option available, SPI ROM for boot
	POWER SUPPLY	+5V DC
	OPERATING SYSTEM	<ul style="list-style-type: none"> • Linux • Yocto
	OPERATING TEMPERATURE*	Industrial and consumer qualified
	DIMENSIONS	67,6 x 32,1 mm

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

BLOCK DIAGRAM

