



## RZ/G1-E AND RZ/G1-C ARE SPECTREFREE

Product Series	Group	CPU core	(Spectre) Variant 1 bounds check bypass (CVE-2017-5753)	(Spectre) Variant 2 branch target injection (CVE-2017-5715)	(Meltdown) Variant 3 rogue data cache load (CVE-2017-5754)	(Meltdown) Variant 3a related variant to 3
RZ/G	RZ/G1C, RZ/G1E	Cortex®-A7	No	No	No	No

No indicates not affected by the particular variant.

Yes indicates affected by the particular variant





### **RZ/G1-E BLOCK DIAGRAM**

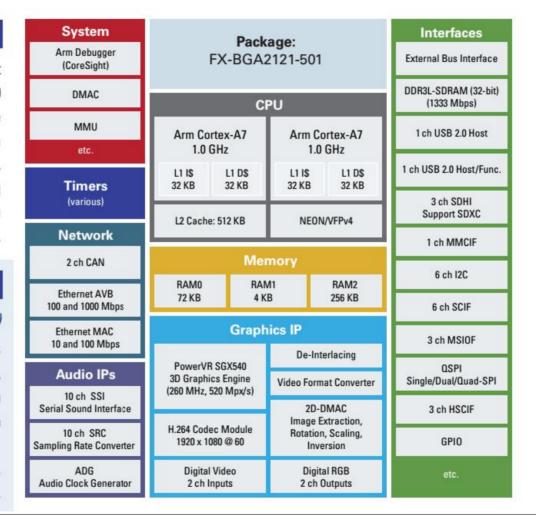
#### RZ/G1E (R8A77450)

Bring huge value to your low-cost embedded design with over 3,800 Dhrystone (DMIPS) performance at a low power footprint via Arm's lowest power processor, the Cortex-A7, while enjoying dual Ethernet, 3D graphics, and a 1080p60 H.264 video codec.

#### RZ/G1C (R8A77470)

#### (block diagram not shown)

Keep BOM costs down with a 4-layer PCB and no need for a PMIC. With a dual-core, 3,800 DMIPS Arm Cortex-A7 processor, you can build brilliant HMI systems with accelerated graphics from a PowerVR SGX531 3D GPU and a 1080p60 H.264 video codec. Available in a FX-BGA2121-501 package.





## RZ/G1-E AND RZ/G1-C ADVANTAGES (FOR GATEWAYS)

**CIP Linux Platform** 

Industrial Grade Linux with maintenance up to 20 years

Power Efficiency

Power consumption as low as 2W for computation (3W for HMI)

Dual Ethernet

**Dual Port Ethernet (10/100 Mbit, Gbit) ideal for gateways** 

Gbit Speed

Effective speed close to 1Gbit/s

Multi Standard Supports IEEE802.1BA, IEEE802.1AS, IEEE802.1Qav and IEEE1722 functions



## RZ/G LINUX PLATFORM WITH LINUX CIP KERNEL

RZ/G LINUX PLATFORM WITH

# INDUSTRIAL-GRADE CIP LINUX REDUCES RISK AND COST OF OWNERSHIP



