

RZ/G2UL

Active

Samples Available

Order Now

Download Manual HW

General-Purpose Microprocessors with Single-Core Arm Cortex-A55 (1.0GHz) CPU and Single-Core Arm Cortex-M33 (200MHz) CPU with 2ch Gigabit Ethernet

RZ/G2UL Group User's Manual: Hardware

RZ/G2UL Easy Download Guide

RZ/G2L, RZ/G2LC, RZ/G2UL Flyer

Product Tree

OverviewDocumentationDesign & DevelopmentProduct OptionsSupportVideos & Training

Additional Details

Feedback

Overview

DescriptionFeaturesComparisonApplications

The RZ/G2UL microprocessor includes a Cortex®-A55 (1.0GHz) CPU, a 16-bit DDR3L/DDR4 interface, and a simple LCD controller. It also has many interfaces such as camera input, display output, USB 2.0, and Gbit-Ether, making it ideal for applications such as entry-level industrial gateway control and embedded devices with simple GUI capabilities.

In addition, there are two types of RZ/G2UL. Type-1 supports all functions and Type-2 supports pin compatibility with RZ/G2LC. Please refer to [RZ/G2UL Overview](#) for the differences in the functions supported by each.

Type-1 Part Number: R9A07G043U11GBG#BC0

[Read More](#)



Documentation

★ = Featured Documentation

Get document updates
Log in required to subscribe

All Types

Start typing to filter results by title

Type	Title	Date
★ Manual - Hardware	RZ/G2UL Group User's Manual: Hardware ZIP 19.83 MB	Oct 31, 2023
★ Guide	RZ/G2UL Easy Download Guide PDF 599 KB 日本語	Jul 22, 2024
★ Flyer	RZ/G2L, RZ/G2LC, RZ/G2UL Flyer PDF 4.08 MB 日本語	Jul 18, 2024
Application Note	Mount Conditions Baking Conditions PDF 157 KB	Jun 5, 2024
Guide	SMARC EVK of RZ/G2L, RZ/G2LC, RZ/G2UL Linux Start-up Guide Rev.1.03 PDF 3.16 MB	May 31, 2024
Brochure	RZ Family Brochure PDF 11.97 MB 日本語	May 20, 2024
Manual - Software	RZ/G2L, Five, V2L Group BSP Manual Set (RTK0EF0045Z9000AZJ-v3.0.6.zip) Log in to Download ZIP 10.89 MB	May 20, 2024
Guide	RZ/G2UL PCB Verification Guide for Core VDD ZIP 2.56 MB	May 16, 2024
Check List for Designing RZ/G2L, RZ/G2LC, RZ/V2L, RZ/G2UL, RZ/Five, RZ/A3UL and		
+ Add 2 hidden items		37 items

Design & Development

Software & ToolsBoards & KitsModels

Software & Tools

Software & tools, start typing to filter

All types

All companies

RZ/G Verified Linux Package [5.10-CIP] Linux Packages for RZ MPUs. Functions of this products have been verified and regular maintenance is also provided.	Software Package	Renesas
RZ/G Multi-OS Package RZ/G Multi-OS Package is the software package consisting of Flexible Software Package (FSP) as software package for Renesas MCU with Arm® Cortex-M Core and OpenAMP as standardization API of framework for interprocessor communication for developing multi OS solution.	Software Package	Renesas
Downloads Getting Started with Flexible Software Package Setting GPIO with Flexible Software Package RZ/G Multi-OS Package V2.0.2 RZG_FSP_Packs_v2.0.1		
RZ MPU Security Package Security Package for RZ MPUs. This package is used in combination with the Linux package provided for each device.	Software Package	Renesas
RZ Smart Configurator RZ Smart Configurator is a utility for combining software in ways that meet your needs. It simplifies the embedding of Renesas drivers in your systems through supports for importing middleware and drivers and configuring pins.	Solution Toolkit	Renesas

+ Add 2 hidden items6 items

Software Downloads

All Types

Start typing to filter results by title

Type	Title	Date
Software & Tools - Other	Open source packages(oss_pkg_rzg_v3.0.6-update2.7z) 7Z 2,177.94 MB	Jun 28, 2024
Software & Tools - Other	RZ/G Verified Linux Package v3.0.6-update2(RTK0EF0045Z0021AZJ-v3.0.6-update2.zip) Log in to Download ZIP 44.11 MB	Jun 28, 2024
Software & Tools - Other	RZ/G Verified Linux Package v3.0.6-update1(RTK0EF0045Z0021AZJ-v3.0.6-update1.zip) Log in to Download ZIP 44.04 MB	May 31, 2024
Software & Tools - Other	Open source packages(oss_pkg_rzg_v3.0.6.7z) 7Z 1,974.60 MB	Apr 24, 2024
Software & Tools - Other	RZ/G Verified Linux Package v3.0.6(RTK0EF0045Z0021AZJ-v3.0.6.zip) Log in to Download ZIP 43.95 MB Application: Consumer Electronics, Industrial Function: BSP, OS, Software Package	Apr 24, 2024
Software & Tools - Other	RZ/G2UL Pre-built Images (RZG2UL_VLP3.0.6_Pre-built_Images.zip) Log in to Download ZIP 115.95 MB	Apr 24, 2024
PCB Design Files	RZ SMARC Series Carrier Board Design Data V4.01 Log in to Download ZIP 23.85 MB	Apr 22, 2024
+ Add 1 hidden item		19 items

Product Options

Please log in or register to buyLog in to order

Show FiltersResetFull ScreenExportTips

	Series Name	Main CPU	Operating Freq (Max) (MHz)	Bit Size	Sub CPU	RAM (KB)
R9A07G043U11GBG	RZ/G	Cortex-A55	1000	64	Cortex-M33	128
R9A07G043U11GBG#BC0	RZ/G	Cortex-A55	1000	64	Cortex-M33	128

Complete Your Design

Explore complementary products to elevate your design

Industrial

Application-Specific Clocks

9FGV0241

2-Output 1.8 V PCIe Gen1-4 Clock Generator with Zo=100 ohms

Datasheet

USB Type-C, USB Power Delivery, and Rapid Charge

R9A02G011

USB PD Controller

Datasheet

DC/DC Converters

RAA211650

60V 5A Integrated Switching Regulator

Datasheet

Related Applications

Industrial

You Might Also Need

Multi-Channel Power Management ICs (PMICs)

Non-Volatile Memory

GreenPAK™ Programmable Mixed-Signal Products

Application-Specific Clocks

USB Type-C, USB Power Delivery, and Rapid Charge

DC/DC Converters

Support

RZ Forum

Contact Technical Support

MCU / MPU Selection Tool

RZ Family FAQs

Get Samples

Contact a Sales Representative

Videos & Training



Introduction to RZ/G2UL - An Entry-class MPU for Industrial HMI Applications

Introduction to RZ/G2UL - An Entry-class MPU for Industrial HMI Applications

News & Blog Posts

Giving Customers the Options to Make or Buy SoM and/or SBC to Accelerate Design Cycle

Blog Post

Jul 21, 2023

Boards & Kits

Please contact [sales](#) or a [distributor](#) to reserve an evaluation board.

Alternatively, please [contact us here](#).

RENESAS

Stay Informed

Get the latest news, products, and solutions delivered straight to your inbox.

Sign Up Now

Corporate

Overview

Careers

Investors

News

Sustainability

Contact

Blogs

Videos

Top Tools

e³ studio

CS+

Renesas Flash Programmer

MCU / MPU Selection Tool

iSim:PE Offline Simulation Tool

PowerCompass Multi-Rail Design Tool

PowerNavigator

Lab on the Cloud

QuickConnect Platform

Buy/Sample

Technical Support

Free Sample Request

Check Product Availability

Sales and Distributor Directory

Language

English

中文

日本語

©2024 Renesas Electronics Corporation.

Notices & Terms

Privacy Policy

Accessibility

Sitemap

Website Feedback