

RZ/A1L Group, RZ/A1LU Group, RZ/A1LC Group Handbook for RZ/A1L, RZ/A1LU, RZ/A1LC

Introduction

This document compiles useful information for each stage of device selection, development, and Mass production. You can also select what you need for your application from our rich selection of application notes that describe how to use a peripheral function, example applications, how to create a program, and more.

Please utilize this information, materials and application notes as a handbook when developing.

Target Device

RZ/A1L Group, RZ/A1LU Group, RZ/A1LC Group

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1. The table of information and materials needed for Device Selection, Development and Mass production.

1.1 Step1: Device Selection

This section summarizes the information that is useful for the preliminary survey phase (Step1-1) and for the evaluation phase for device performance and features (Step1-2) when selecting the device.

1.1.1 Step1-1: Preliminary survey phase

#	Item	Contents	Link
1	Hardware information	Datasheet	Doc
2	Products & Solutions	RZ/A1L Group Home Page	Web site
3		RZ/A1LU Group Home Page	Web site
4		RZ/A1LC Group Home Page	Web site
5		RZ/A Series Flyer	Doc
6		RZ Family Brochure	Doc
7		Video	Web site
8		News & Blog	Web site
9		Renesas Wiki - RZ/A Series 32/64-bit MPUs	Web site

1.1.2 Step1-2: Evaluation phase for device performance and features

#	Item	Contents	Link
User's Manual / Documentation			
1	Document	User's manual: Hardware	Doc
2		RZ/A1L Group Technical update (errata information)	Web site
3		RZ/A1LU Group Technical update (errata information)	Web site
4		RZ/A1LC Group Technical update (errata information)	Web site
5		RZ/A1L Group Product change notice (PCN)	Web site
6		RZ/A1LU Group Product change notice (PCN)	Web site
7		RZ/A1LC Group Product change notice (PCN)	Web site
8		RZ Family NOMENCLATURE (Part number guide, the meaning of character in part number)	Doc
9		Semiconductor reliability handbook	Doc
10		RoHS Note: Product Options → Part Number → Package information → RoHS Info	Web site (RZ/A1L) Web site (RZ/A1LU)
11			Web site (RZ/A1LC)
12		RZ/A Start-up	Web site
Evaluation Board			
13	Evaluation Board	Stream It! (Equipped with RZ/A1LU)	Web site
Evaluation environment (set up method)			
14	Hardware development	Stream it! Quick start guide	Doc
15		Stream It! Design File including Schematics	Doc
16	Software development	RZ/A1LU Group RZ/A1LU Software Package	Doc
17		RZ/A1LU FreeRTOS™ Software Package	Web site
18			Sample Code
19		RZA1 Microsoft Azure Software Development Kit	github
20		e ² studio - Information for RZ Family	Web site
21			Doc
22		RZ/A1LU QSPI Flash Boot Loader	Sample Code
23		QE for Camera: Development Assistance Tool for Camera Applications	Web site
24	QE for Display: Development Assistance Tool for Display Applications	Web site	

Training			
25		RZ Family Video Library	Web site
26	Training information	Software & Tool Course solution menu	Web site
27		RZ MPU Family Course	Web site *
Partner			
28	Partner information	Partner products (system solutions provider)	Web site
29		RZ Family Partner Ecosystem	Web site

*It requires Renesas Academy account to access the contents.

1.2 Step2: Product Design, Development

This section summarizes useful information for product design and development.

#	Item	Contents	Link
1	Board Design	RZ/A Series Hardware Design Guide	Doc
2		RZ/A1 Guidelines for High-Speed USB2.0 Board Design	Doc
3		Crystal Units vs. IC Matching Search	Web site
4		ECAD model	Web site (RZ/A1L)
5		Note: ECAD can be found by clicking on the respective part number of the product options.	Web site (RZ/A1LU)
6			Web site (RZ/A1LC)
7		Package information (package outline information, mount manual, etc.)	Web site
8		Circuit Diagram CAD Data for RZ/A Series (OrCAD® Version)	Doc
9		RZ/A1L Group IBIS/ BSDL	Doc
10		RZ/A1LU Group IBIS/ BSDL	Doc
11		RZ/A1LC Group IBIS/ BSDL	Doc

Supportive information

Get help from our technical staff and community.

#	Item	Link
1	FAQ (frequently asked inquiries)	Web site
2	RZ forum (community)	Web site
3	Technical support	Web site

2. Application note /related information

This part shows the information about application notes.

(Note: To access contents of sample code, My Renesas account is required.)

2.1 RZ/A1L, RZ/A1LU, RZ/A1LC Application note /related information

#	Title	Contents
1	RZ/A1LU Group Software Package Application Note	This Application Note describes the operation of the software package created for the RZ/A1LU Stream it!
2	USB Driver	USB Device Class Firmware

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	May,21.2026	-	First edition issued