

RZ/A2M Group

Handbook for RZ/A2M

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/A2M 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/A2M Group Home Page	Web site
3		RZ/A Series Flyer	Doc
4		RZ Family Brochure	Doc
5		Video	Web site
6		News & Blog	Web site
7		Renesas Wiki - RZ/A Series 32/64-bit MPUs	Web site
8		Reference designs (Winning combination)	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		Technical update (errata information)	Web site
3		Product change notice (PCN)	Web site
4		RZ Family NOMENCLATURE (Part number guide, the meaning of character in part number)	Doc
5		Semiconductor reliability handbook	Doc
6		RELIABILITY REPORT	Doc
7		RoHS Note: Product Options → Part Number → Package information → RoHS Info	Web site
8		RZ/A Start-up	Web site
Evaluation Board			
9	Evaluation Board	RZ/A2M Evaluation Kit	Web site
10	(for General purpose)	GR-MANGO WEB Page	Web site
Evaluation environment (set up method)			
10	Hardware development	RZ/A2M Evaluation Board Kit Quick Start Guide	Doc
11		RZ/A2M CPU Board User's Manual	Doc
12		RZ/A2M Sub Board User's Manual	Doc
13	Software development	RZ/A2M Group RZ/A2M Software Package Quick Start Guide	Doc
14		RZ/A2M Software Package (Arm Development Studio) Quick Start Guide	Doc
15		RZ/A2M Group RZ/A2M Software Core Package - Sample Code	Doc
16		RZ/A2M Simple Applications Package (e ² studio + GCC) - Sample Code	Doc
17		RZ/A2M Group RZ/A2M Simple Applications Package (Arm Development Studio) - Sample Code	Doc
18		RZ/A2M Group RZ/A2M Simple Applications Package (IAR Embedded Workbench for Arm) - Sample Code	Doc
19		RZ/A2M Group RZ/A2M SDIO Wi-Fi Package - Sample Code	Doc
20		RZ/A2M Group RZ/A2M SDIO Wi-Fi Package (IAR Embedded Workbench for Arm) - Sample Code	Doc
21		RZ/A2M Group RZ/A2M 2D Barcode Package - Sample Code	Doc
22		RZ/A2M Group RZ/A2M IRIS Package - Sample Code	Doc
23		QE: Tools for Particular Applications Information for Users	Web site
24		QE for Camera: Development Assistance Tool for Camera Applications	Web site
25		QE for Display: Development Assistance Tool for Display Applications	Web site
26		RZ/A2M Software Package for GR-MANGO Quick Start Guide	Doc
27		RZ/A2M Azure RTOS Package for GR-MANGO Quick Start Guide	Doc
28		RZ/A2M Group RZ/A2M Simple Applications Package for GR-MANGO - Sample Code	Doc
29		RZ/A2M Group RZ/A2M 2D Barcode Package for GR-MANGO - Sample Code	Doc
30		RZ/A2M Group RZ/A2M IRIS Package for GR-MANGO - Sample Code	Doc

31		RZ/A2M Group RZ/A2M SDIO Wi-Fi Package for GR-MANGO - Sample Code	Doc
Training			
32		RZ Family Video Library	Web site
33	Training information	Software & Tool Course solution menu	Web site
34		*RZ MPU Family Course	Web site*
Partner			
35	Partner information	Partner products (system solutions provider)	Web site
36		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/A2M Group Guidelines for High-Speed USB2.0 Board Design	Doc
3		RZ/A2M Group Guidelines for LVDS and MIPI Board Design	Doc
4		Crystal Units vs. IC Matching Search	Web site
5		ECAD model Note: ECAD can be found by clicking on the respective part number of the product options.	Web site
6		Package information (package outline information, mount manual, etc.)	Web site
7		RZ/A2M Group PLBG0256KA-B IBIS Rev1.0	Doc*
8		RZ/A2M Group PRBG0324GA-A IBIS Rev1.0	Doc*
9		RZ/A2M Group PLBG0256KA-B BSDL Rev2.0	Doc*
10		RZ/A2M Group PRBG0324GA-A BSDL Rev2.0	Doc*
11		Circuit Diagram CAD Data for RZ/A2M Group (OrCAD® Version)	Doc

*It requires My Renesas account to access the contents.

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. Summary of information by category

This part shows the information about application notes by the category.
(Note: To access contents of sample code, My Renesas account is required.)

2.1 RZ/A2M Application note /related information

#	Title	Contents
1	RZ/A2M Example of booting from OctaFlash™ using SPI multi I/O bus controller	This application note describes an example of booting from the OctaFlash via the SPI multi-I/O bus controller (hereinafter called "SPIBSC") of RZ/A2M by using the boot mode 4 (Octal-SPI flash boot 1.8V) function.
2	RZ/A2M Group Example of booting from HyperFlash™ using HyperBus™ controller	This application note describes an example of booting from the HyperFlash via the HyperBus controller of RZ/A2M by using the boot mode 7 (HyperFlash boot 2 1.8-V product).
3	RZ/A2M Group RS-CANFD Sample Program Application Note	This application note describes the function specifications of the RS-CANFD driver for RZ/A2M.
4	USB Driver	USB Device Class Firmware
5	Dynamically Reconfigurable Processor (DRP) Technology	This is basic information about DRP.
6	DRP Library for RZ/A2M FreeRTOS™ Software Package	The DRP library is a set of configured firmware 'tiles' with various functions. By loading the firmware into the DRP, these functions can be processed in hardware.
7	DRP Library User's Manual	This manual describes the functions and usage of the DRP library, which run on the dynamically reconfigurable processor (DRP) of RZ/A2M Group Microprocessors.
8	DRP Driver User's Manual	This manual describes the functions and usage of the DRP driver software, which controls the dynamic reconfigurable processor (DRP) of RZ/A2M Group microprocessors.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	April 9, 2026	-	First edition issued