

[Released on the Web]

R20TS0430EJ0100

Rev.1.00

RZ Family RZ/A2M Software Package V3.00

May. 16, 2019

Outline

RZ/A2M Software Package V3.00 has been released on the web as RZ/A2M FreeRTOS™ software development kit.

This product is available free of charge.

1. Features

(1) What is RZ/A2M Software Package?

RZ/A2M Software Package is a software development kit for the RZ/A2M that supports various RZ/A2M functions such as DRP (Dynamically Reconfigurable Processor), camera input, LCD output, and image adjustment. It consists of device drivers, middleware, sample applications for the RZ/A2M and FreeRTOS OS.

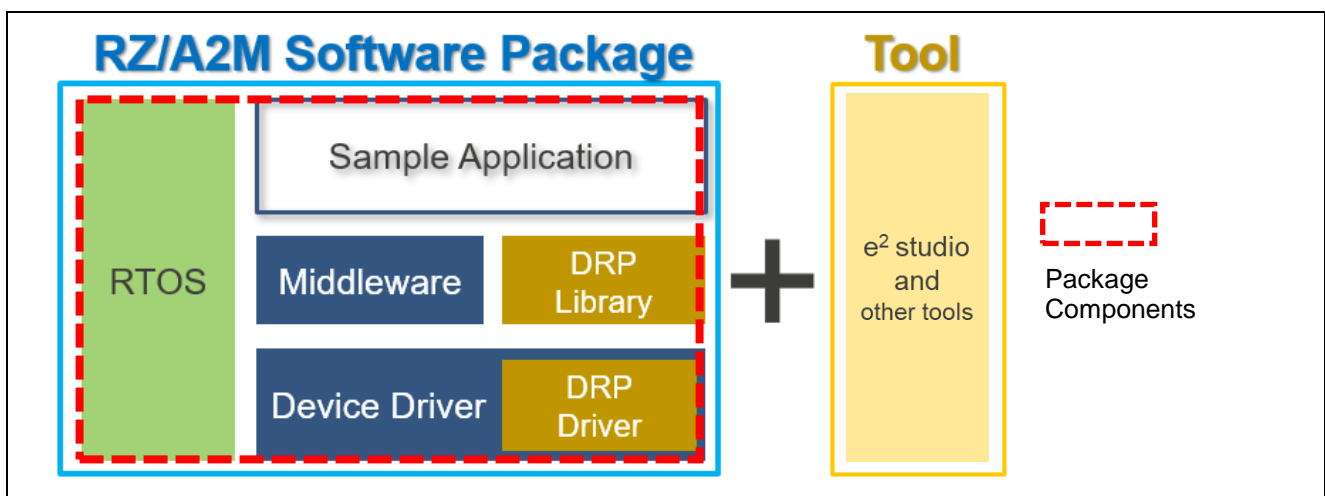


Figure 1 RZ/A2M Software Package Structure

(2) Package Information

Simple Applications Package and Application Specific Package are available as RZ/A2M Software Packages. Choose your package according to the features you wish to use.

[Simple Applications Package]

- Simple Applications Package

Simple software projects including sample usage of drivers and middleware for the RZ/A2M group.

[Updated]

Added sample projects for ADC, SD FATFS, USBH FATFS, USBH HID, and Low Power Mode.

- Trusted Secure IP driver Package

A project including sample usage of secure boot function using Trusted Secure IP driver.

[Updated]

Newly added in RZ/A2M Software Package V3.00.

[Application Specific Package]

- 2D Barcode Package

A project including sample usage of the DRP library (2D barcode decoding function).

[Updated]

Extended supported algorithms for the DRP library.

- IRIS Package

A project including sample usage of the DRP library (Iris recognition and simple ISP functions).

[Updated]

Extended supported algorithm for the DRP Library.

- Graphics RGA Package

A project including graphics sample using the 2D graphic engine.

[Updated]

No updated features. (Document revision only).

- Guiliani 2.2 SDK

A project supporting high-end GUI using TES Guiliani-Lite (HMI framework from TES Electronics Solutions).

[Updated]

Newly added in RZ/A2M Software Package V3.00.

2. Supported Devices

RZ/A2M group

3. Operating Environment

The main operating environment is as follows.

- Integrated development environment: e2 studio V7.4.0 or later versions
- Compiler: GNU Arm Embedded Toolchain: V6.3 (6-2017-q2)

<https://developer.arm.com/tools-and-software/open-source-software/developer-tools/gnu-toolchain/gnu-rm/downloads>

- Supported board: RZ/A2M Evaluation Board Kit
- Emulator: SEGGER J-link LITE (included in the board above.)
- Tools for Particular Applications: QE for Display, QE for Camera

4. Obtaining the Product

Obtain the package from the URL below.

<https://www.renesas.com/products/software-tools/software-os-middleware-driver/software-package/rza2-software-development-kit-free-rtos.html>

5. Using the Product

Download the desired package from the URL listed in section 4. Decompress the zip file, then start building your project in e² studio. In e² studio, peripheral functions and middleware can be easily added to an existing project by using Smart Configurator.

For details, refer to the following document included in the package.

RZ/A2M group RZ/A2M Software Package Quick Start Guide

Document number: R01QS0027^(note)

Note: The last 6 digits are omitted.

Revision History

| Rev. | Date | Description | |
|------|-----------|-------------|----------------------|
| | | Page | Summary |
| 1.00 | May.16.19 | - | First edition issued |

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