

[Released on the Web]

R20TS0680EJ0100

Rev.1.00

RZ Family RZ/A2M Software Package V8.20

Apr. 16, 2021

Overview

The RZ/A2M Software Package V8.20 will be released on the web as a RZ/A2M FreeRTOS™ software development kit.

This product is available free of charge.

1. Features

(1) What is an RZ/A2M Software Package?

The RZ/A2M Software Package is a software development kit that supports various functions of the RZ/A2M group, 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.

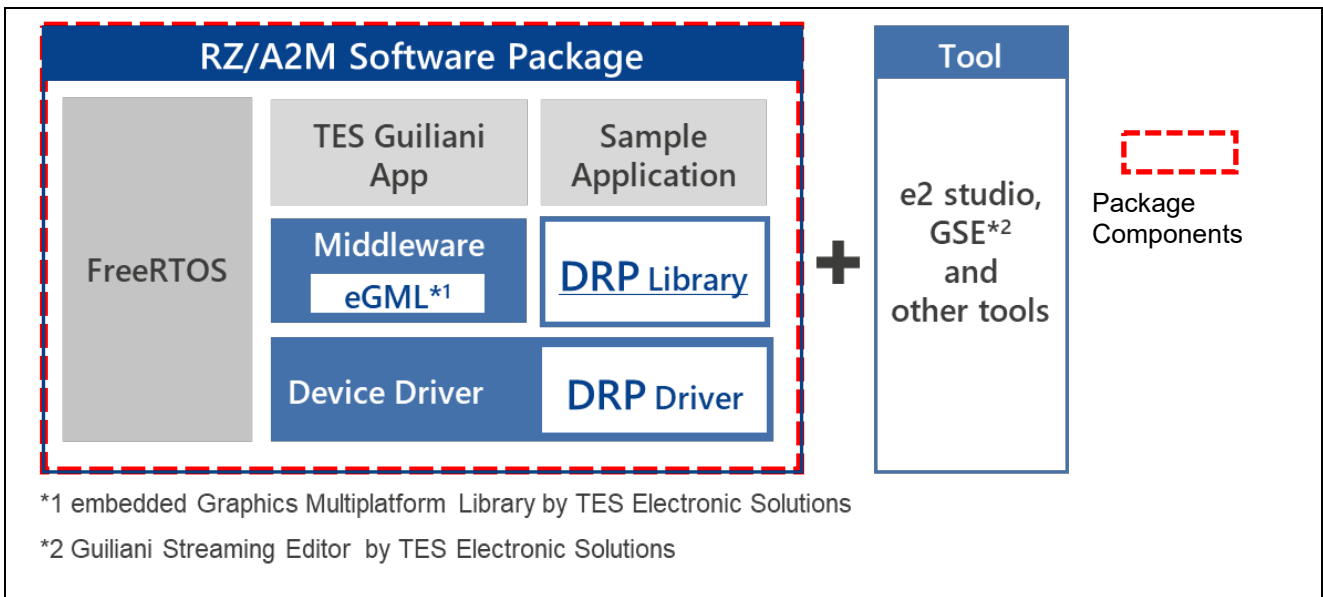


Figure 1 RZ/A2M Software Package Structure

(2) Details of the update

The details of the update by RZ/A2M Software Package V8.20 are as follows.

- Update the following package.

[Simple Applications Package] RZ/A2M Simple Applications Package V8.20

- In the USBH HID and USBF CDC sample programs, the initial value of the used USB port is set to USB0, allowing the USB1 port to be used for board power.
- In the USBH MSC FAT and USBH HID sample programs, a comment has been added to the link directive file to describe the alignment required for section allocation for variables used by the USBH driver.
- Sample program projects for FreeRTOS, ADC, and DMAC-SCIFA are now C++ compatible projects.
- Interrupt priority has been changed to enable use of FreeRTOS service calls in DRP callback functions.

2. Supported Devices

RZ/A2M group

3. Operating Environment

The operating environment mainly consists of the following:

- Integrated development environment: e² studio 2021-04

<https://www.renesas.com/software-tool/e-studio>

If you are using a version earlier than 2021-04, please update to 2021-04.

<https://www.renesas.com/search?keywords=r20ut4966>

- Compiler: GNU Arm Embedded Toolchain (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

<https://www.renesas.com/rza2m-evaluation-board-kit>

- Emulator: SEGGER J-link LITE (included with the board above)

- Development assistance tool: Smart Configurator, QE for Display, QE for Camera

4. Obtaining the Product

Obtain the product from the following URL. This package will be released on April 20, 2021.

<https://www.renesas.com/software-tool/rza2m-freertos-software-package>

Revision History

| Rev. | Date | Description | |
|------|-----------|-------------|----------------------|
| | | Page | Summary |
| 1.00 | Apr.16.21 | - | First edition issued |
| | | | |

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