[Released on the Web]

RZ Family RZ/A2M Software Package V4.00

Outline

RZ/A2M Software Package V4.00 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 group that supports various 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.
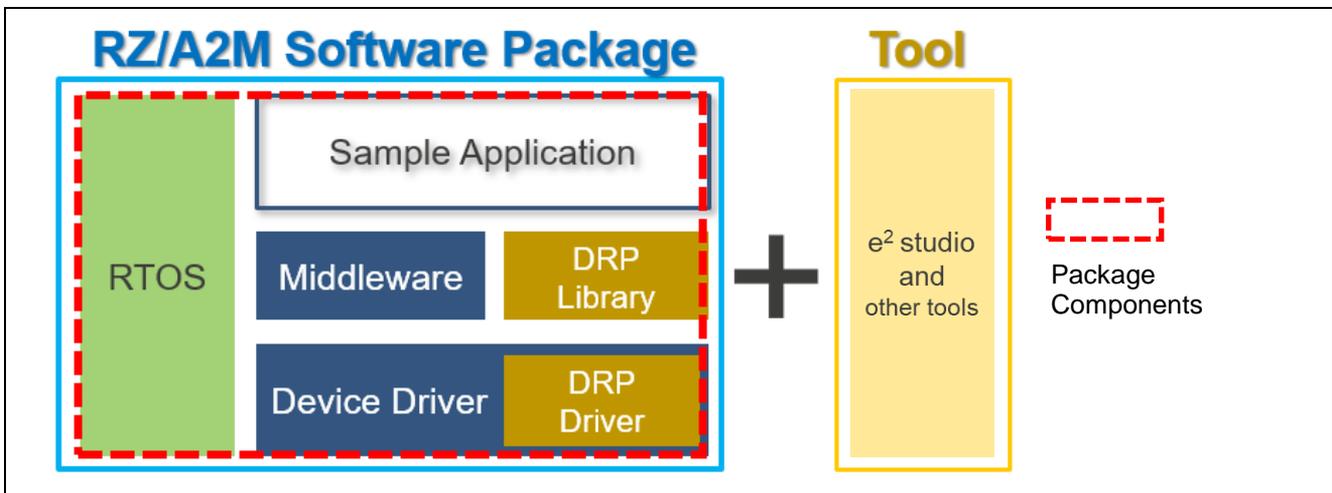

Figure 1 RZ/A2M Software Package Structure

(2) Package Information

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

In RZ/A2M Software package V4.00, all the packages (except for Trusted Secure IP Package and Guiliani 2.2 SDK) have been updated to support Amazon FreeRTOS.

We will acquire Amazon FreeRTOS hardware qualification in 3Q 2019.

Amazon FreeRTOS details: https://aws.amazon.com/freertos/

By validating our devices, we can collaborate and work with the cloud services provided by Amazon Web Services (AWS).

Amazon Web Services (AWS) details: https://aws.amazon.com/about-aws/

[Simple Applications Package]

- Simple Applications Package

  Simple software projects including sample usage of drivers and middleware.

  [Updated]

  Added a sample project and DRP library for object detection.

  Added support for Amazon FreeRTOS.

- Trusted Secure IP driver Package

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

  [Updated]

  No changes from the previous version.

[Application Specific Package]

- 2D Barcode Package

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

  [Updated]

  Added support for Amazon FreeRTOS.

- IRIS Package

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

  [Updated]

  Added support for Amazon FreeRTOS.

- Graphics RGA Package

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

  [Updated]

  Added support for Amazon FreeRTOS.

- Guiliani 2.2 SDK

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

  A project supporting high-performance GUI.

  [Updated]

  Added support for the following Touch Monitor.

  ・ON-LAP/1102I

2. Supported Devices

RZ/A2M group

3. Operating Environment

The main operating environment is as follows.

-   Integrated development environment: e² studio V7.4.0 and later versions
-   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
-   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.
RZ/A2M Smart Configurator User's Guide: e² studio
Document number: R20AN0583 (Note)
Note: The last 6 digits are omitted.
https://www.renesas.com/search/keyword-search.html#q=r20an0583&genre=document&redirect=true

Revision History

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

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