

[Released on the Web]

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RZ Family RZ/A2M Software Package V5.00

Outline

RZ/A2M Software Package V5.00 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 functions for 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.

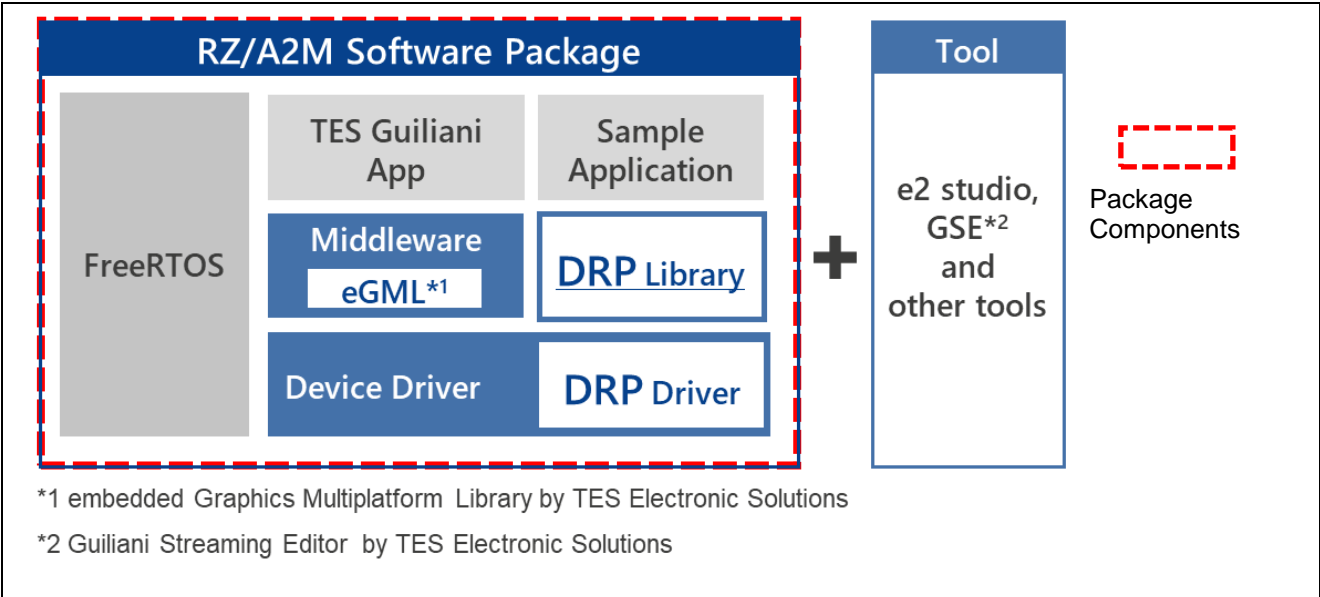


Figure 1 RZ/A2M Software Package Structure

## (2) Package Information

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

RZ/A2M Software Package V5.00 has added the features to the following packages.

[Simple Applications Package] RZ/A2M Simple Applications Package

- Added a Wi-Fi communication sample program using the Pmod ESP32 module <sup>(Note)</sup> from Digilent Inc. This program transmits MIPI camera input images to a server in JPEG format. This sample provides developers an easy way to create Wi-Fi products.

Note: For details about Pmod ESP32 module, see the following URL.

<https://store.digilentinc.com/pmod-esp32-wireless-communication-module/>

- Added USB Function CDC sample  
This sample enables the RZ/A2M family MCUs to be implemented for USB power delivery products.

[Application Specific Package] Guiliani SDK 2.2 for RZ/A2M Software Package

- Added support for Multilayer  
TES Guiliani supports creation of a high-performance GUI for cutting-edge HMI applications. By adding support for Multilayer in this feature upgrade, this sample enables easier and faster multilayer image processing compared to the previous version.

## 2. Supported Devices

RZ/A2M group

## 3. Operating Environment

The main operating environment is as follows.

- e<sup>2</sup> studio integrated development environment V7.5.0 or later
- 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 above board)
- Development assistance tool: Smart Configurator, 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 in section 4. Decompress the zip file, then start building your project in e<sup>2</sup> studio. In e<sup>2</sup> studio, peripheral functions and middleware can be easily added to an existing project by using Smart Configurator.

For details, see below.

RZ/A2M Smart Configurator User's Guide: e<sup>2</sup> studio

Document number: R20AN0583 <sup>(Note)</sup>

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	Oct.01.19	-	First edition issued

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