[Released on the web]

RZ Family RZ/A2M Software Package V7.00

Outline

The RZ/A2M Software Package V7.00 has been released on the web as a RZ/A2M FreeRTOS™ software development kit.

This product is available free of charge.

1. Product Features

(1) What is a 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.
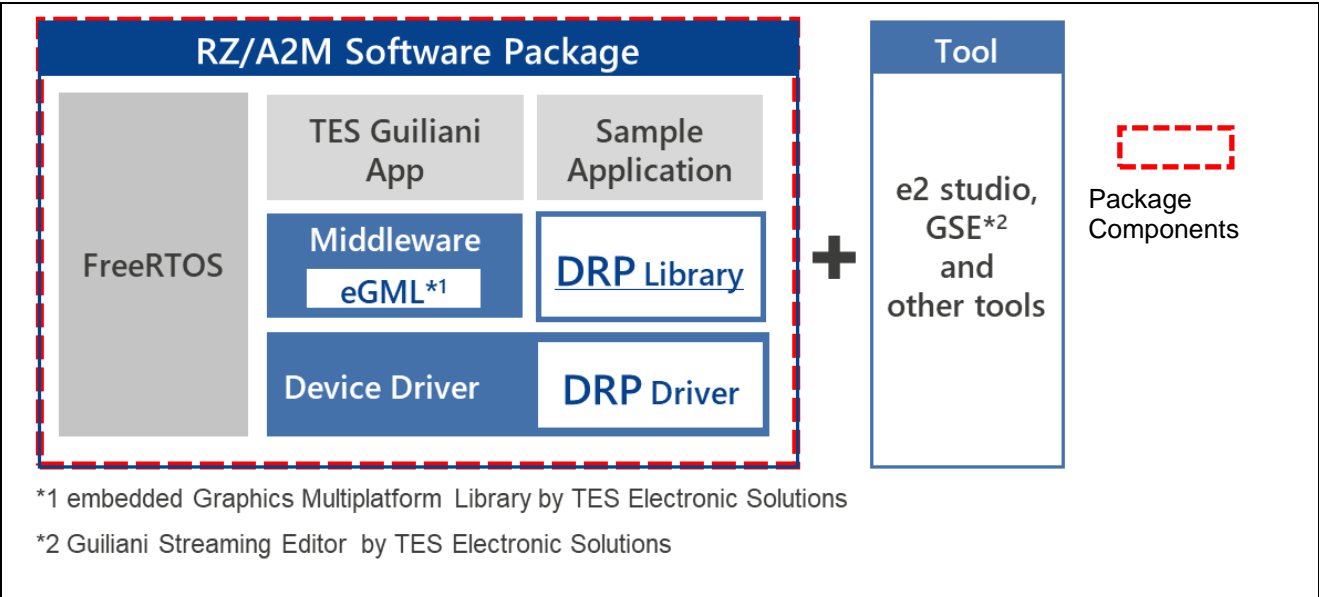

*1 embedded Graphics Multiplatform Library by TES Electronic Solutions

*2 Guiliani Streaming Editor by TES Electronic Solutions

Figure 1 RZ/A2M Software Package Structure

(2)   Details of the update

The details of the update by RZ/A2M Software Package V7.00 are as follows.

・   The following functions have been newly added to the RZ/A2M Simple Applications Package:

[Simple Applications Package] RZ/A2M Simple Applications Package

➢ Firmware update sample program
This sample program rewrites the serial flash memory on the evaluation board to an update application (via UART), and then runs the application. The sample program can be used for reference in development of application update functions.

➢ SDIO function (for the SD driver and the SD driver sample program)
This program can be used for reference of SDIO-based Wi-Fi module control. High Speed mode[Note 1] and Default Speed mode[Note 2] are supported as the SDIO communication speed.
 Note 1: SD clock: 50 MHz max.
 Note 2: SD clock: 25 MHz max.

➢ GPT-PWM sample program
This sample program outputs PWM waveforms by using the general purpose PWM timer (GPT).

➢ Touch screen sample program
This sample program controls the touch screen according to the data which is input from the FT5216 (manufactured by FocalTech) over the I^{2}C bus.
URL of FocalTech Systems Co., Ltd.: http://www.focaltech-systems.com/en

2.   Supported Devices

RZ/A2M group

3.   Operating Environment

The operating environment mainly consists of the following:

・e^2 studio integrated development environment V7.7.0 or later

https://www.renesas.com/e2studio

・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/rz-a2m-evaluation-board-kit

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

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

4.   Obtaining the Product

Obtain RZ/A2M Software Package V7.00 from the URL below.

https://www.renesas.com/rza2-software-development-kit-free-rtos

5. Using the Product

Download the desired package from the URL shown in section 4. Decompress the zip file, then start building your project in e^2 studio. In e^2 studio, peripheral functions and middleware can be easily added to an existing project by using Smart Configurator.

Refer to the following user's guide for details.
RZ/A2M Smart Configurator User's Guide: e^2 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	Apr.01.20	-	First edition issued

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