[Released on the Web]

RZ/A2M FreeRTOS™ Software Package

IAR C/C++ Compiler™ Version V5.10, Arm® Compiler Version V4.10

Overview

The RZ/A2M Software Package IAR C/C++ Compiler™ Version V5.10 and RZ/A2M Software Package Arm® Compiler Version V4.10 have been released on the web as RZ/A2M FreeRTOS™ software development kits.

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. In addition to the previously developed GCC version, it supports the integrated development environment for IAR System and Arm.
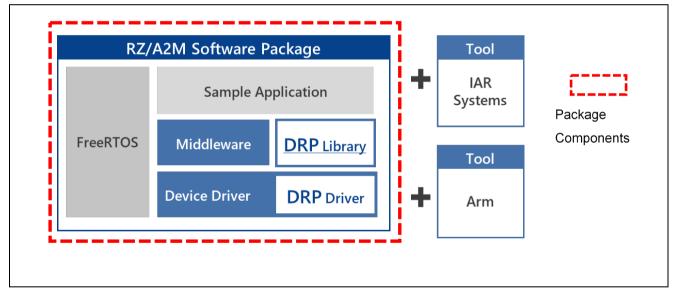

Figure 1. Multi-compiler development environment for the RZ/A2M Software Package

(2) Details of the update

 Details of the update by RZ/A2M Software Package, IAR C/C++ Compiler™ Version V5.10 and RZ/A2M Software Package Arm® Compiler Version V4.10 are as follows. In both packages, the same functions are updated.

➢ 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 information file to describe the alignment required for section allocation for variables used by the USBH driver.
➢ Interrupt priority has been changed to enable use of FreeRTOS service calls in DRP callback functions.
➢ In the RZ/A2M Software Package IAR C/C++ Compiler™ Version, the default power processing setting in the startup processing of the USBF CDC sample programs has been revised so that it is equal to the setting in the RZ/A2M Software Package for GCC V8.20 released on April 20th.

2. Supported Devices

RZ/A2M group

3. Operating Environment

The operating environment mainly consists of the following:

[RZ/A2M Software Package IAR C/C++ Compiler™ Version]

・Integrated development environment: IAR Embedded Workbench for Arm, V8.40.1 or later

https://www.iar.com/products/architectures/arm/iar-embedded-workbench-for-arm/

・Compiler: IAR C/C++ Compiler™

https://www.iar.com/products/architectures/arm/iar-embedded-workbench-for-arm/

・Supported board: RZ/A2M Evaluation Board Kit

https://www.renesas.com/rz-a2m-evaluation-board-kit

・Emulator: I-jet™

https://www.iar.com/products/architectures/arm/i-jet/

[RZ/A2M Software Package Arm® Compiler Version]

・Integrated development environment: Arm® Development Studio

https://developer.arm.com/tools-and-software/embedded/arm-development-studio

・Compiler: Arm® Compiler 6

https://developer.arm.com/tools-and-software/embedded/arm-compiler/downloads/version-6

・Supported board: RZ/A2M Evaluation Board Kit

https://www.renesas.com/rz-a2m-evaluation-board-kit

・Emulator: ULINK2™

https://www.arm.com/products/development-tools/debug-probes/ulink2

4. Obtaining the Package

Obtain the packages from the following URLs:

[RZ/A2M Software Package IAR C/C++ Compiler™ Version]

https://www.renesas.com/software-tool/rza2m-freertos-software-package-iar-cc-compiler-version

[RZ/A2M Software Package Arm® Compiler Version]

https://www.renesas.com/software-tool/rza2m-freertos-software-package-arm-compiler-version

5. Using the Package

Download the desired package from the URL shown in section 4. Decompress the zip file, and then start building your project in an applicable integrated development environment shown in section 3.

Revision History

		Description	
Rev.	Date	Page	Summary
1.00	Jun.01.21	-	First edition issued

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