

[Released on the web]

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Nov. 16, 2021

RZ Family RZ/A1LU Software Package V3.10,  
RZ/A1H Software Package V1.10,  
RZ/A1H Software Package for GR-PEACH V1.10

Outline

The software development kits for the following RZ/A1LU and RZ/A1H groups have been updated and released on the website.

- RZ/A1LU Software Package V3.10
- RZ/A1H Software Package V1.10
- RZ/A1H Software Package for GR-PEACH V1.10

The products are available free of charge.

1. Product Features

RZ/A1LU Software Package, RZ/A1H Software Package, and RZ/A1H Software Package for GR-PEACH are the software development kits for the RZ/A1LU and RZ/A1H groups that provide consistent support for camera input, LCD output, and image adjustments.

The products include the following software.

- Sample applications for camera input/LCD output
- Applications supported by drivers, middleware, and utilities
  - Ethernet (LwIP)
  - USB host MSC (FatFs)
  - USB host HID keyboard and mouse
  - USB Host CDC serial driver
  - USB function HID mouse
  - USB function CDC serial driver
  - Video utility (RVAPI)
  - Touch panel utility
  - Sound input/output
- Device drivers
- OS (FreeRTOS)

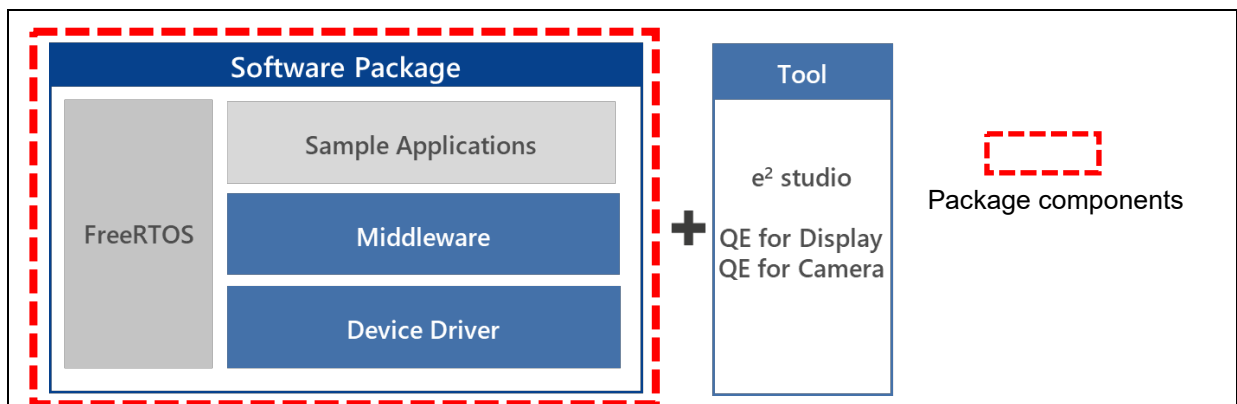


Figure 1 Components of RZ/A1H Software Package

## 2. Changes

The following changes are common to RZ/A1LU Software Package, RZ/A1H Software Package, and RZ/A1H Software Package for GR-PEACH.

- The supported FreeRTOS has been changed to V10.4.3-LTS-patch-1.
- The supported IDE has been changed to e<sup>2</sup> studio 2021-10.
- The supported tool chain has been changed to GNU ARM Embedded Toolchain (9-2020).
- The API documents of the I2C bus driver have been updated.
- The following problems have been fixed.
  - The USB Function occasionally fails to get the size of data received.
  - Communication is occasionally interrupted when transmitted continuously via Ethernet.

## 3. Supported Devices

RZ/A1LU group

RZ/A1H group

## 4. Operating Environment

- Integrated development environment: e<sup>2</sup> studio 2021-10 or later  
[e<sup>2</sup> studio | Renesas](#)  
IAR Embedded Workbench for ARM 6.40.1<sup>(Note)</sup>  
[IAR Embedded Workbench for Arm | IAR Systems](#)
- Compiler: GNU Arm Embedded Toolchain (9-2020-q2)  
[GNU Toolchain | GNU Arm Embedded Toolchain Downloads – Arm Developer](#)  
The compiler included in IAR Embedded Workbench for ARM 6.40.1<sup>(Note)</sup>
- Supported board  
Stream It!  
[YSTREAM-IT-RZ-V2 - Stream It! RZ MPU Evaluation Board | Renesas](#)  
Renesas Starter Kit+ for RZ/A1H  
[RZ/A1H-Starter-Kit-Plus - Renesas Starter Kit+ for RZ/A1H | Renesas](#)  
GR-PEACH  
[GR-PEACH | Renesas](#)

<sup>(Note)</sup> RZ/A1LU Software Package only

### 5. Obtaining the Products

Obtain the product from the URL below.

RZ/A1LU FreeRTOS™ Software Development Kit

<https://www.renesas.com/software-tool/rza1lu-freertos-software-package>

RZ/A1H FreeRTOS™ Software Development Kit

<https://www.renesas.com/software-tool/rza1h-freertos-software-package>

### 6. Using the Products

Download the product from the URL in section 5. Decompress the zip file and start building your project in e<sup>2</sup> studio.

**Revision History**

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

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