[Released on the Web]

RZ Family RZ/A1H Software Package for GR-PEACH V1.00

R20TS0578EJ0100
Rev.1.00
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Outline

As an application product of the RZ/A1H Software Package (a software development kit for RZ/A1H), we released RZ/A1H Software Package for GR-PEACH V1.00 (supporting the GR-PEACH board from Core Ltd) on the web.

This product is available free of charge.

1. Product Features

RZ/A1H Software Package for GR-PEACH is a software development kit for the RZ/A1H that provides consistent support for camera input, LCD output, and image adjustment.

RZ/A1H Software Package for GR-PEACH V1.00 includes the following software:

- Sample application for camera input/LCD output
- Applications supported by drivers, middleware, and utilities.
  - Ethernet (LwIP)
  - USB Host MSC (FatFs)
  - USB Host HID Class Keyboard
  - USB Host HID Class Mouse
  - USB Host CDC Class Serial Driver
  - USB function HID Class Mouse
  - USB function CDC Class Serial Driver
  - Video Utility (RVAPI)
  - Touch Screen Utility
  - CMOS Utility
  - Sound input/output
- Device Drivers
- OS(FreeRTOS)

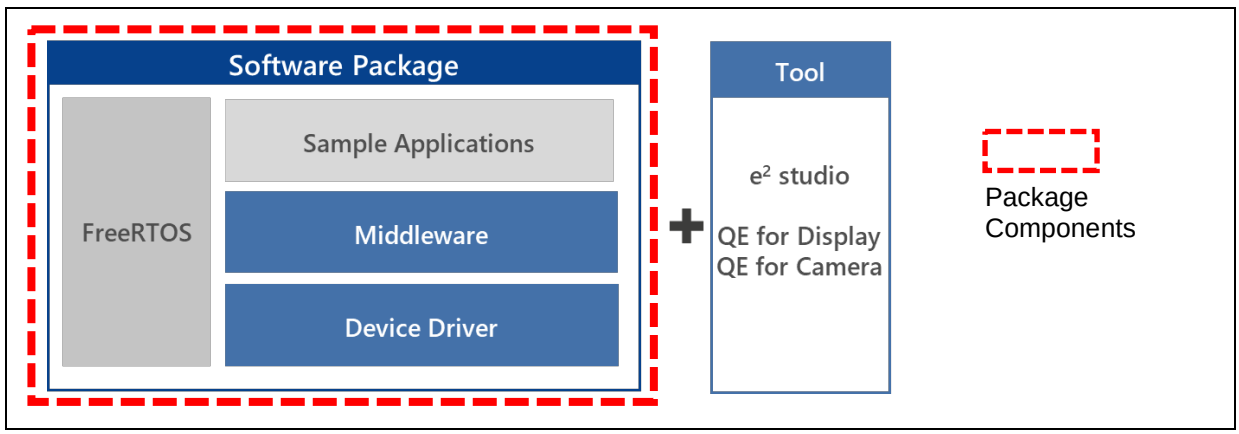

Figure 1 Software Structure of the RZ/A1H Software Package

2. GR-PEACH

GR-PEACH is the Gadget Renesas (GR) board from Core Ltd for the Renesas RZ family's RZ/A1H group. Fully pin-compatible with Arduino UNO, GR-PEACH is designed as an ARM® Mbed™ enabled development platform and takes advantage of web browser-based program development and a robust library selection. This product supports a development environment using FreeRTOS™ in addition to the conventional development environment for GR-PEACH.

With the added appeal of 10MB of built-in RAM and the processing power of Arm® Cortex®-A, GR PEACH was created for the developer interested in high-speed prototyping of IoT devices with extensive HMI—graphics, touch panel, camera input, audio, network and more. Because programs can be downloaded with drag and drop, you can easily start using the RZ/A1H group without the need for an in-circuit emulator.

Gadget Renesas Reference URL: https://www.renesas.com/products/gadget-renesas.html

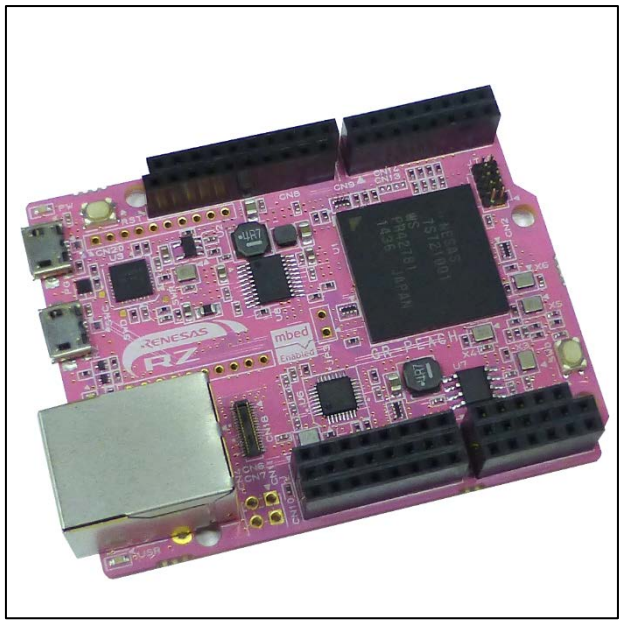

Figure 2 GR-PEACH image

3. Supported Devices

RZ/A1H group

4. Operating Environment

The operating environment mainly consists of the following:

- Integrated development environment: e^2 studio V7.6.0 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: GR-PEACH

  https://www.renesas.com/products/gadget-renesas/boards/gr-peach.html

5. Obtaining the Product

Obtain RZ/A1H Software Package for GR-PEACH V1.00 from the URL below.

https://www.renesas.com/rza1h-software-development-kit-free-rtos

6. Using the Product

Download the desired package from the URL shown in section 5. Decompress the zip file, then start building your project in e^2 studio.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	May.16.20	-	First edition issued

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