

# RZ/T2H Board Support Package

## Version 1.0.0

R01US0681EJ0100

Rev. 1.00

## Release Note

Nov. 26, 2024

### Introduction

This release note describes the contents and important points of the RZ/T2H Board Support Package (hereinafter referred to as “BSP”).

Please also refer to the following documents that describe the instructions to build BSP and boot the evaluation boards.

- [r01us0682ej0100-rz-t\(Linux\\_Start-up\\_Guide\\_RZT2H\).pdf](#)

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## 1. Release Items

- **Name and version**  
RZ/T2H Board Support Package  
Version 1.0.0 (hereinafter referred to as “BSP v1.0.0”)
- **Target board**  
RZ/T2H Evaluation Board
- **Functions**  
Linux BSP
  - Linux Kernel
  - Linux Drivers
 GUI Framework
  - LVGL
  - Qt
- **File contents**  
BSP is delivered by the files listed in Table 1.

**Table 1. RZ/T2H Board Support Package**

### Basic files of BSP v1.0.0

File	Description
RTK0EF0177Z00002ZJ-v1.0.0.zip (*)	Board Support Package. This file includes the <b>Yocto recipe packages</b> , the necessary documents, and Flash Programmer.
rzt2h_bsp_v1.0.0.tar.gz	<b>Yocto recipe packages</b>
- HDR NM - Flash_Programmer_SCIF_CR52_RZT2H_EVK.mot	Flash Programmer. These are used for writing the bootloaders the evaluation board.
r01us0681ej0100-rz-t(Release_Note_RZT2H).pdf	This document
r01us0682ej0100-rz-t(Linux_Start-up_Guide_RZ/T2H).pdf	Documents describing booting method and the required settings of bootloader for RZ/T2H.

- (\*) These packages are provided “AS IS” with no warranty and the license which is described in the source code. Please check the contents of the license, then consider the applicability to the product carefully.

## 2. Components

The components which are commonly used in this release are listed in Table 2. Please also refer to the manifest file for details. The manifest file is created to the following path after building the images:

Example:

```
$WORK/build/tmp/deploy/images/rzt2h-dev/core-image-minimal-rzt2h-dev.manifest
```

**Table 2. Versions of commonly used components**

Components	BSP v1.0.0
Linux kernel	5.10.145-cip17
GCC	8.3.0 (Arm GCC 8.3-2019.03)
busybox	1.30.1
openssl	1.1.1n
Docker	19.03.8-ce

### 3. Changes

None. This is the first release of BSP.

## 4. Restriction

### (1) PCIe Devices compatibility

Our evaluation has shown that the following PCIe cards are incompatible with our evaluation board. It is likely that other PCIe cards may also exhibit the same issue.

- BUFFALO USB 3.0 2-Port PCI-Express Interface Board (IFC-PCIE2U3)
- Lenovo PCI-E PCI Express x1 2-Ports USB 3.0 Adapter Card 03T7030

### (2) PCIe Endpoint

The PCIe Endpoint feature on the RZ/T2H evaluation board is currently unavailable. We are actively working to develop and implement this functionality.

### (3) WDT

The watchdog timer (WDT) is unable to reboot the system due to the XSPI being in 8-bit mode. Renesas is investigating this issue.

### (4) SDHI

Random DMA timeouts occur when an SD card is inserted or removed. Renesas is investigating this issue.

### (5) Ethernet ports and PCIe

In this release, the ethernet ports (ETH0~3) and PCIe are exclusive and cannot be used simultaneously. The ethernet ports are enabled as the default setting.

## 5. Notes

None.

## 6. Revision History

Rev.	Date	Description	
		Page	Summary
1.0.0	Nov. 26, 2024	-	Update the information to BSP v1.0.0.

## Website and Support

Renesas Electronics Website

<http://www.renesas.com/>

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