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# RZ/G3S Board Support Package

## Version 1.0.0

R01US0644EJ0101

Rev. 1.01

## Release Note

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Nov 30, 2023

### Introduction

This release note describes the contents, building procedures and important points of the RZ/G3S Board Support Package.

Please refer to the "r01us0645ej0101-rz-g (Linux Start-up Guide RZG3S).pdf" that Build instruction for smarc EVK.

### Contents

1. Release Items .....	2
2. Components .....	4
3. Changes .....	5
4. Restrictions .....	6
5. Notes .....	7
6. Revision History .....	8

## 1. Release Items

- **Name and version**

RZ/G3S Board Support Package

Version 1.0.0 (hereinafter referred to as “BSP v1.0.0”)

- **Distribution method**

Please visit the site below and create an account to download the packages. Basic packages of BSP v1.0.0 which are listed in Table 1. RZ/G3S Board Support Package can be downloaded.

- **Target board**

RZ/G3S reference board

- RZ/G3S Evaluation board Kit (P/N: RTK9845S33S01000BE) (smarc-rzg3s)
  - RZ/G3S SMARC Module Board (P/N: RTK9845S33C01000BE)
  - RZ SMARC Series Carrier Board (P/N: RTKSMCBB2B01000BE)

- **Build Environment**

Linux Host PC

OS: Ubuntu 20.04 LTS (64 bit OS must be used.)

20.04 inside a docker container also OK.

100GB free space on HDD or SSD is necessary.

- **Functions**

Linux BSP

- Linux Kernel
- Linux Drivers

- **File contents**

BSP is delivered by the files listed in Table 1.

**Table 1. RZ/G3S Board Support Package****Basic packages**

<b>File</b>	<b>Description</b>
RTK0EF0045Z95001ZJ-v1.0.0.zip(*1)	RZ/G3S Board Support Package. This file includes the <b>Yocto recipe packages</b> and the necessary documents.
rzg3s_bsp_v1.0.0.tar.gz(*1)	<b>Yocto recipe packages</b>
r01us0644ej0101-rz-g3s(Release Note).pdf	This document
r01us0645ej0101-rz-g3s(Linux Start-up Guide RZG3S).pdf	Documents describing building instruction, booting method and the required settings of bootloader for <b>RZ/G3S</b> .

(\*1) 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.

**Additional packages**

<b>File</b>	<b>Description</b>
RTK0EF0045Z96001ZJ-v1.0.0.zip	BSP Manual Set for RZ/G3S.

Note) Detailed information regarding the configuration (Device tree) and usage of the device drivers contained in this BSP can be downloaded from Renesas.com. Please download the "BSP Manual Set".

## 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 following path after building the images:

```
$WORK/build/tmp/deploy/images/smarc-rzg3s/core-image-<image-name>-smarc-rzg3s.manifest
```

Note: [<image-name>](#) is minimal or bsp.

Please refer build instructions in Linux Start-up Guide RZG3S.

**Table 2. commonly used components**

Components	BSP v1.0.0
Linux kernel	5.10-cip17
GCC	8.3.0
glibc	2.58.3
busybox	1.30.1
openssl	1.1.1n

### 3. Changes

This section describes the first release.

#### 4. Restrictions

- SPDIF driver and PDM driver are not implemented.
- Ethernet driver and SSI driver don't work properly after resuming (Ethernet PHY is up but cannot ping. SSI cannot play audio).

## 5. Notes

none

## 6. Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Aug. 31, 2023	-	First edition for BSP v1.0.0-rc1
1.01	Nov. 30, 2023	-	BSP v1.0.0



## Website and Support

Renesas Electronics Website

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

Inquiries

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

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