

RZ/G3L Time-sensitive Network Package

Version 1.0.0

R01US0867EJ0100

Rev. 1.00

Release Notes

Sep. 3, 2026

Introduction

This release note describes the contents and important points of the RZ/G3L Time-sensitive Network Package.

Please also refer to the following site that explains RZ Linux BSP Plus for Kernel 6.12 and the instructions to build BSP and boot the evaluation board.

- RZ Linux BSP Plus for Kernel 6.12: https://renesas-rz.github.io/rz_linux_bsp_plus/

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1. Release Items

- **Name and version**
RZ/G3L Time-sensitive Network Package Version 1.0.0
- **Target board**
RZ/G3L Evaluation Board
- **Functions**
- Time-Sensitive Network Stack (gptp, TDMA Driver, LLDP, SRP, YANG, NETCONF, EAP)

The following table summarizes the OSS components, versions, licenses, and reference URLs used by the TSN stack.

Table 1. TSN List

Stack Name	OSS	Version	License	Reference URL
PTP	LinuxPTP	4.1	GPL-2.0	https://sourceforge.net/projects/linuxptp/files/v4.1/
TDMA Driver	iproute2	6.7.0	GPL-2.0	https://github.com/iproute2/iproute2/tree/v6.7.0
LLDP	lldpd	1.0.18	ISC	https://github.com/lldpd/lldpd/tree/1.0.18
YANG	libyang	2.1.148	BSD-3-Clause	https://github.com/CESNET/libyang/tree/v2.1.148
NETCONF	libnetconf2	3.0.8	BSD-3-Clause	https://github.com/CESNET/libnetconf2/tree/v3.0.8
EAP	Freeradius	3.2.6	GPL-2.0 license	https://github.com/FreeRADIUS/freeradius-server/tree/release_3_2_6

The following table shows the support matrix between the network IPs available on RZ/T2N and the TSN stacks.

- **Supported:** The function is currently supported and available.
- **N/A (Not Applicable):** The function is not applicable because the corresponding hardware capability is not available on the target IP.

Table 2. TSN Stack support situation

Stack Name	Support Status
gPTP (IEEE 802.1AS)	Supported
PTP (IEEE 1588)	Supported
TDMA (IEEE 802.1Qbv)	Supported
TDMA (IEEE 802.1Qch)	N/A
TDMA (IEEE 802.1Qci)	N/A
TDMA (IEEE 802.1Qbu)	Supported
LLDP	Supported
YANG/NETCONF	Supported
EAP	Supported

- **File contents**

TSN package is delivered by the files listed in Table 3.

Table 3. TSN Package

File	Description
RTK0EF0045Z0052AZJ-rz-tsn-v1_0_0.zip	TSN Package. This file includes the Yocto recipe and the necessary documents.
meta-rz-tsn_rzg3l_v1_0_0.tar.gz	Yocto recipe for TSN.
r01us0867ej0100-rz-g3l(TSN_Release_Notes).pdf	This document.
r01an8409ej0100-rz-g3l (TSN_AppNote).pdf	This file describes how to build and use TSN Package.

2. Components

The components which are commonly used in this release are listed in Table 4. Please also refer to the manifest file for details. The manifest file is created in the following path after building the images:

Example:

```
$WORK/build/tmp/deploy/images/smarc-rzg3l/core-image-<target>-smarc-rzg3l.rootfs.manifest
```

(*) The <target> is your built image type (e.g., minimal, weston).

Table 4. Versions of commonly used components

Components	RZ Linux BSP Plus for Kernel 6.12
Linux kernel	6.12.46-cip8
GCC	13.4.0
busybox	1.36.1
openssl	3.2.6

3. Changes from previous version

This is the first release package for RZ/G3L.

4. Restriction

None.

5. Note

None.

6. Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Sep. 3, 2026	-	First edition issued.

Website and Support

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