

# RZ/T2H, RZ/N2H Time-sensitive Network Package Version 1.0.2 Rotus

## **Release Note**

R01US0751EJ0102 Rev. 1.02 Apr. 15, 2025

## Introduction

This release note describes the contents and important points of the RZ/T2H, RZ/N2H Time-sensitive Network Package.

Please also refer to the following documents that explain the Board Support Package (hereinafter referred to as "BSP") and the instruction to build BSP and boot the evaluation boards.

- r01us0681ej0xxx-rz-t2h-n2h(Release Note RZT2H\_N2H).pdf
- r01us0682ej0xxx-rz-t2h-n2h(Linux\_Start-up\_Guide\_RZT2H\_N2H).pdf

"xxx" is replaced with the revision of the documents.

## Contents

1.	Release Items	.2
2.	Components	.4
3.	Changes	.5
4.	Restriction	.6
5.	Note	.7
6.	Revision History	.8



### 1. Release Items

## • Name and version

RZ/T2H, RZ/N2H Time-sensitive Network Package Version 1.0.2

• Target board

RZ/T2H Evaluation Board RZ/N2H Evaluation Board

#### • Functions

Time-Sensitive Network Stack (gptp, TDMA Driver, LLDP, SRP, YANG, NETCONF, EAP)

#### Table 1. TSN List

Stack Name	OSS	License	URL
gPTP	LinuxPTP	GPL-2.0	https://github.com/richardcochran/linuxptp/tree/v2.0.1
TDMA Driver	iproute2	GPL-2.0	https://github.com/iproute2/iproute2/tree/v5.5.0
LLDP	lldpd	ISC	https://github.com/lldpd/lldpd/tree/1.0.4
YANG	libyang	BSD-3- Clause	https://github.com/CESNET/libyang/tree/v2.1.111
NETCONF	libnetconf2	BSD-3- Clause	https://github.com/CESNET/libnetconf2/tree/v2.1.37
EAP	Freeradius	GPL-2.0 license	https://github.com/FreeRADIUS/freeradius- server/tree/release_3_0_20

#### • File contents

BSP is delivered by the files listed in Table 2.

#### Table 2. TSN Package

#### TSN Package v1.0.2

File	Description
RTK0EF0177Z05001ZJ-v1.0.2.zip (*)	TSN Package. This file includes the Yocto recipe and the
	necessary document.
meta-rz-tsn_v1.0.2.tar.gz	Yocto recipe for TSN.
r01us0751ej0102-rz-t2h-	This document.
n2h(TSN_Release_Note).pdf	
r11an0932ej0102-rz-t2h-	This file describes how to build and use TSN Package.
n2h(TSN_AppNote).pdf	



#### Basic Packages of BSPv1.0.2

File	Description
RTK0EF0177Z00002ZJ-v1.0.2.zip (*)	Board Support Package. This file includes the
	Yocto recipe packages and the necessary
	documents.
rzt2h_n2h_bsp_v1.0.2.tar.gz	Yocto recipe packages
- HDR NM	Flash Programmer. These are used for writing the
- Flash_Programmer_SCIF_CR52_RZT2H_EVK.mot	bootloaders on the evaluation board.
r01us0681ej0102-rz-t2h-	BSP release note.
n2h(Release_Note_RZT2H_N2H).pdf	
R01us0682ej0102-rz-t2h-n2h(Linux_Start-	Documents describing booting method and the
up_Guide_	required settings of bootloader for RZ/T2H,
RZ/T2H_N2H).pdf	RZ/N2H.

(\*) 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.



The components which are commonly used in this release are listed in Table 3. 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/rzt2h-dev/core-image-minimal-rzt2h-dev.manifest

Or

\$WORK/build/tmp/deploy/images/rzn2h-dev/core-image-minimal-rzn2h-dev.manifest

Components	BSP v1.0.1	BSP v1.0.2
Linux kernel	5.10.145-cip17	5.10.145-cip17
GCC	8.3.0	8.3.0
	(Arm GCC 8.3-2019.03)	(Arm GCC 8.3-2019.03)
busybox	1.31.1	1.31.1
Qt (LGPL version)	5.6.3	5.6.3
Docker	19.03.8-ce	19.03.8-ce



## 3. Changes

Remove restrictions.



## 4. Restriction

None.



## 5. Note

#### (1) GMAC Known issue and workaround

Known issues and workarounds of GMAC affecting TSN functions are detailed in Table 28.104 of the "RZ/T2H and RZ/N2H Groups User's Manual: Hardware" (Document Number: R01UH1039EJxxxx). Please refer to the document for details.



# 6. Revision History

		Descript		
Rev.	Date	Page	Summary	
1.00	Nov. 26, 2024	-	First edition issued.	
1.01	Dec. 23, 2024	-	Add TDMA driver.	
			Newly support RZ/T2H, RZ/N2H BSP v1.0.1.	
1.02	Apr. 15, 2025	-	Newly support RZ/T2H, RZ/N2H BSP v1.0.2.	



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