

# RZ/T2H, RZ/N2H XDP and DPDK Package

## Version 1.0.2

R01US0724EJ0102 Rev. 1.02 Apr. 15, 2025

Release Note

## Introduction

This release note describes the contents and important points of the RZ/T2H, RZ/N2H XDP and DPDK Package.

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

- r01us0681ej0102-rz-t2h-n2h(Release\_Note\_RZT2H\_N2H).pdf
- r01us0682ej0102-rz-t2h-n2h(Linux\_Start-up\_Guide\_RZ/T2H\_N2H).pdf

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### 1. Release Items

- Name and version RZ/T2H, RZ/N2H XDP and DPDK Package Version 1.0.2
- Target board
- RZ/T2H Evaluation Board
- RZ/N2H Evaluation Board

#### • Functions

XDP (eXpress Data Path) DPDK (Data Plane Development Kit)

• File contents

BSP is delivered by the files listed in Table 1.

#### Table 1. RZ/T2H, RZ/N2H XDP and DPDK Package

#### RZ/T2H, RZ/N2H XDP and DPDK Package v1.0.2

File	Description
RTK0EF0177Z02000ZJ-v1.0.2.zip (*)	XDP and PDK Package. This file includes the Yocto
	recipe and the necessary document.
meta-rz-dpdk_v1.0.2.tar.gz	This Yocto recipe builds XDP test tools and DPDK
	(including test tools). It's prepared based on the layer
	listed in OpenEmbedded Layer Index - layers and can
	build both components. (*)
r01us0724ej0102-rz-t2h-n2h	This document.
(XDP_DPDK_Package_Release_Note).pdf	
r11an0831ej0102-rz-t2h-	This file describes how to use XDP.
n2h(XDP_AppNote).pdf	
r11an0971ej0102-rz-t2h-	This file describes how to use DPDK.
n2h(DPDK_AppNote).pdf	
test_analysis.sh	This script evaluates the transmission performance of
	DPDK. Please see the DPDK application note for
	details.
0001-add-support-of-samples-bpf.patch	Patch file. This is used to build the test tool of XDP.

(\*) Both XDP and DPDK are technologies for accelerating network processing, but they take different approaches. Please consider them according to your system.

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
- Flash_Programmer_SCIF_CR52_RZT2H_EVK.mot	the bootloaders 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
up_Guide_RZ/T2H_N2H).pdf	the required settings of bootloader for
	RZ/T2H, 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.

## 2. Components

The components which are commonly used in this release are listed in the following table. Please also refer to the manifest file for details. The manifest file is created to 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	1.30.1	1.30.1	
openssl	1.1.1n	1.1.1n	

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



## 3. Changes

The following table lists the changes from the previous version.

#### Table 3. Changes from XDP and DPDK Package v1.0.1 to v1.0.2

Features	Description
Package	- Newly support DPDK with 2 ports.



## 4. Restrictions

### (1) **XDP and DPDK**

XDP and DPDK cannot be built and used at the same time.



None.



## 6. Revision History

		Description	
Rev.	Date	Page	Summary
1.00	Nov. 26, 2024	-	First edition issued.
1.01	Dec. 23, 2024	-	Newly support RZ/T2H, RZ/N2H BSP v1.0.1.
			Newly support DPDK.
1.02	Apr. 15, 2025	-	Newly support DPDK with 2 ports.



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