

# RZ/T2H, RZ/N2H Industrial Network Package Version 1.0.2

n 1.0.2	R01US0683EJ0102
•••	Rev. 1.02
e Note	Apr. 15, 2025

# Introduction

Release

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

- r01us0681ej0102-rz-t2h-n2h(Release Note RZT2H\_N2H).pdf
- r01us0682ej0102-rz-t2h-n2h(Linux\_Start-up\_Guide\_RZT2H\_N2H).pdf

### 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/T2H, RZ/N2H Industrial Network Package Version 1.0.2

• Target board

RZ/T2H Evaluation Board RZ/N2H Evaluation Board

#### • Functions

Industrial Network Stack (EtherCAT, OPC UA, Modbus TCP, EtherNet/IP, PROFINET)

#### Table 1. Industrial Network List

Stack Name	OSS (Master)	OSS (Slave)	License	URL
EtherCAT	IgH- EtherCAT Master	-	LGPLv2.1 GPLv2	https://gitlab.com/etherlab.org/ethercat
OPC UA	Open62541	Open62541	MPLv2.0 (*1)	https://github.com/open62541/open62541
Modbus TCP	libmodbus	libmodbus	LGPL2.1	https://github.com/stephane/libmodbus
EtherNet/IP	-	OpENer	SOFTWARE DISTRIBUTION LICENSE FOR THE ETHERNET/IP(TM) COMMUNICATION STACK (*2)	https://github.com/EIPStackGroup/OpENer
PROFINET	-	P-Net	GPLv3 Commercial license (*3)	https://github.com/rtlabs-com/p-net

(\*1) There are samples in the repository, and they have CC0 license.

- (\*2) To use the EtherNet/IP logo and other associated trademarks, a license from ODVA is required.
- (\*3) This software is also available under a commercial license with options for support and maintenance.
  - If you intend to use this stack in a commercial product, you likely need to buy a license.

Renesas cannot warrant that the above information is exhaustive with respect to the licensing requirements. Please ensure that you personally verify the licenses for all software and technologies used in each OSS package to confirm their suitability for your product.



#### • File contents

BSP is delivered by the files listed in Table 2.

#### Table 2. Industrial Network Package

#### Industrial Network Package v1.0.2

File	Description
RTK0EF0177Z01000ZJ-v1.0.2.zip (*)	Industrial Network Package. This file includes the Yocto
	recipe and the necessary document.
meta-rz-ia-network_v1.0.2.tar.gz	Yocto recipes.
r01us0683ej0102-rz-t2h-	This document.
n2h(Network_Package_Release_Note).pdf	
r11an0824ej0102-rz-t2h-	This file describes how to build and use Industrial
n2h(Industrial_Network).pdf	Network Package.

#### 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-n2h	BSP release note.
(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.



# 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 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	1.30.1	1.30.1
Qt (LGPL version)	5.6.3	5.6.3
Docker	19.03.8-ce	19.03.8-ce



# 3. Changes

The following table lists the changes from the previous version.

#### Table 4. Changes from Industrial Network Package v1.0.1 to v1.0.2

Features	Description
Package	- Newly support RZ/N2H evaluation board.



# 4. Restrictions

None



None.

Release Note



# 6. Revision History

		Description	
Rev.	Date	Page	Summary
1.00	Nov. 26, 2024	-	First edition for Industrial Network Package.
1.01	Dec. 23, 2024	-	Newly support RZ/T2H, RZ/N2H BSP v1.0.1.
1.02	Apr. 15, 2005	-	Newly support RZ/T2H, RZ/N2H BSP v1.0.2.



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