

RZ/V2L Easy Download Guide

Step	Launch of board and evaluation environment Contents Type	Contents Name	Link	RZ/V2L Date
1	User's Manual			
		Document	User's Manual: Hardware	Link Jan, 2024
2	How to start up the board			
		Document	SMARC Module Board User's Manual	Link Apr, 2024
		Document	SMARC Carrier Board User's Manual	Link Apr, 2024
		Document	Evaluation Kit(EVK) Start Up Guide	Link Jun, 2024
		Board	SMARC Module Board	Link -
3	Evaluation environment start-up (AI SDK)			
		Information	Renesas AI SDK WEB Page	Link Jun, 2024
		Document	AI SDK Release Note	Link Nov, 2023
		Compressed file	AI SDK (r11an0752ej0300-rzv2l-ai-sdk.zip)	Link Nov, 2023
		--- Document	--- Release Note	
		--- Software	--- Bootloader for RZ/V2L SMARC Board	
		--- Software	--- Pre-Build (Linux Kernel, Device Tree, Filesystem)	
		--- Software	--- Application cross compiler installer	
		--- Software	--- Dockerfile (Dockerfile for installing AI SDK)	
		--- Tool	--- DRP-AI Translator installer	
		--- Software	--- Open Source Software package (for application cross compile)	
		--- Software	--- Linux license information (Sauce code, Lib, Release note)	
		--- Document	--- DRP-AI Driver User's Manual	
		--- Document	--- DRP-AI Translator User's Manual	
		--- Document	--- Component List	
		--- Document	--- Linux License List	
		Compressed file	AI SDK Sauce code (RTK0EF0160F02100S1_linux-src.zip)	Link Nov, 2023
		--- Software	--- Yocto recipe package	
		--- Software	--- Open Source Software package (for application cross compile)	
		--- Document	--- Readme	
4	Evaluation environment start-up (Linux VLP)			
	<i>Update</i>	Compressed file	Linux Verified Linux Package (RTK0EF0045Z0024AZJ-v3.0.6.zip)	Link Jul, 2024
		--- Document	--- Release Note	
		--- Document	--- Linux Start-up Guide(r01us0617ej0103-rz-v(Linux Start-up Guide RZV2L).pdf)	
		--- Software	--- Yocto recipe packages(rzv_vlp_v3.0.6.tar.gz)	
		--- Software	--- Patch file(0001-rz-common-recipes-debian-buster-glibc-update-to-v2.2.patch)	
	<i>Update</i>	Compressed file	Open source Package(oss_pkg_rzv_v3.0.6.7z)	Link Jul, 2024
5	Evaluation environment start-up method (DRP-AI)			
	<i>Update</i>	Compressed file	DRP-AI Support Package (r11an0549ej0750-rzv2l-drpai-sp.zip)	Link Jul, 2024
		--- Document	--- Release Note	
		--- Software	--- DRP-AI driver	
		--- Software	--- DRP-AI Sample Application	
		--- Software	--- AI Evaluation Software	
		--- Document	--- AI Implementation Guide	
		--- Document	--- Performance report	
	<i>Update</i>	Compressed file	DRP-AI Open source Package(oss_pkg_rzv_drpai_v7.50.7z)	Link Jul, 2024
6	Evaluation environment start-up method (RTOS for Cortex-M33)			
		Compressed file	Multi-OS Package (r01an7254ej0200_rzv-multi-os-pkg.zip)	Link May, 2024
		--- Document	--- Release Note	
		--- Software	--- Multi-OS Package	
		--- Software	--- Demo Sample	
		--- Document	--- License	
		Document	Getting Started with Flexible Software Package (Application Note)	Link May, 2024
		Document	Setting GPIO with Flexible Software Package (Application Note)	Link May, 2024
		Document	Release Note for Flexible Software Package	Link May, 2024
		Document	FSP Documentation	Link May, 2024
		Software & Tool	RZ/V FSP_Packs (RZV_FSP_Packs_v2.0.0.exe)	Link May, 2024
7	Evaluation environment start-up method (ISP)			
	<i>Update</i>	Compressed file	ISP Support Package (r11an0561ej0140-rzv2l-isp-sp.zip)	Link Jul, 2024
		--- Document	--- Release Note	
		--- Document	--- Simple ISP User's Manual	
		--- Document	--- Simple ISP Sample Application Note	
		--- Document	--- Simple ISP Support Package note of caution.	
		--- Software	--- Recipe to add ISP support to Linux Package	
		--- Software	--- Sample source codes of RZ/V2L Simple ISP	
		--- Software	--- Adjustment tool of RZ/V2L Simple ISP	
8	Evaluation environment start-up method (Graphics Library)			
	<i>Update</i>	Compressed file	Graphics Library Evaluation Version (RTK0EF0045Z13001ZJ-v1.2.2_rzv_EN.zip)	Link Jul, 2024
		--- Document	--- Integration Guide	
		--- Document	--- License	
		--- Software	--- Graphics Library Package	
	<i>Update</i>	Compressed file	Graphics Library Unrestricted Version (RTK0EF0045Z14001ZJ-v1.2.2_rzv_EN.zip)	Link Jul, 2024
		--- Document	--- Integration Guide	
		--- Document	--- License	
		--- Software	--- Graphics Library Package	

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9	Evaluation environment start-up method (Video Codec Library)				
	<i>Update</i>	Compressed file	Video Codec Library Evaluation Version (RTK0EF0045Z15001ZJ-v1.2.2_EN.zip)	Link	Jul, 2024
		--- Document	--- Integration Guide		
		--- Document	--- License		
		--- Software	--- Video Codec Library Package		
	<i>Update</i>	Compressed file	Video Codec Library Unrestricted Version (RTK0EF0045Z16001ZJ-v1.2.2_rzv_EN.zip)	Link	Jul, 2024
		--- Document	--- Integration Guide		
		--- Document	--- License		
		--- Software	--- Video Codec Library Package		
10	Evaluation environment start-up method (Security)				
	<i>Update</i>	Compressed file	Security Package (RZV_SECURITY_PACKAGE_v1.4.3.zip)	Link	Jul, 2024
		--- Document	--- Release Note		
		--- Document	--- User's Manual		
		--- Document	--- StartUp Guide		
		--- Software	--- Security Package		
11	How to launch various tools				
		Tool	DRP-AI Translator Installer	Link	May, 2024
		Document	DRP-AI Translator Release Note	Link	May, 2024
		Document	DRP-AI Translator User's Manual	Link	May, 2024
	<i>Update</i>	Tool	DRP-AI TVM	Link	Jul, 2024
		Tool	e ² studio 2024-01.1 installer for Windows	Link	Jan, 2024
		Tool	e ² studio 2024-01.1 Linux Host	Link	Jan, 2024
		Document	Release Note for e ² studio	Link	Jan, 2024
		Tool	Smart Configurator	Link	Feb, 2024
		Document	Smart Configurator Release Note	Link	Feb, 2024
		Document	Smart Configurator for RZ User's Guide	Link	Jul, 2020

Step	Custom board development	Contents Type	Contents Name	Link	RZ/V2L Date
<i>Update</i>	PCB design checklist when designing a custom board	Document	Check List for PCB Design	Link	Jul, 2024
	PCB Design Guide for High Speed Serial Interface	Document	PCB Design Guidelines for MIPI-CSI, MIPI-DSI and USB2.0	Link	Nov, 2023
	PCB Design Guide for DDR memory	Document	PCB Design Guide for DDR memory	Link	Mar, 2023
	PCB Verification Guide for Core	Document,Model	PCB verification guide for Core VDD	Link	May, 2024
	PCB Verification Guide for DDR memory	Document,Model	PCB Verification Guide for DDR memory	Link	Oct, 2023
	Reference Design Data(Schamtics,Layout,BOM)	Design Data	RZ/V2L SMARC Module Board Design Data	Link	Apr, 2024
	Reference Design Data(Schamtics,Layout,BOM)	Design Data	RZ SMARC Series Carrier Board Design Data	Link	Apr, 2024
	IBIS(For LSI)	Model	RZ/V2L IBIS	Link	May, 2024
	Boundary Scan Description Language file	Model	RZ/V2L BSDL	Link	Mar, 2024
	Mecanical Handling Guideline	Document	Mecanical Handling Guideline	Link	Nov, 2023
	Thermal Management Guide	Document	Thermal Management Guide	Link	Nov, 2021
	Reference Power consumption	Document	RZ/V2L Reference power consumption guide(typ.)	Link	Nov, 2021
	Reflow Soldering conditions	Document	Mount Conditions Reflow Soldering Conditions	Link	Dec, 2023
	Baking conditions	Document	Mount Conditions Baking Conditions	Link	Jun, 2024
	Lifetime estimation guide	Document	Lifetime Guideline	Link	Nov, 2023
	Power Management IC installed in EVK	Device Info	Power Management IC	Link	-
	Clock Generator IC installed in EVK	Device Info	Clock Generator IC	Link	-

Step	Information for engineers	Contents Type	Contents Name	Link	RZ/V2L Date
	RZ/V Series 64-bit MPU (Renesas Wiki)	Link summary	Introduction,Boards,Software and Documentation	Link	-
	FAQ	Link summary	Knowledgebase / FAQ	Link	-
	Contact Support	QA Ticket	Technical Q&A	Link	-

[Supplementary information] Renesas recommends using AI SDK.

Step	Information for engineers	Contents Type	Contents Name	Link	RZ/V2L Date
	Old Version Software & Tools				
		Software	RZ/V Verified Linux Package [5.10-CIP] v3.0.5	Link	Jan, 2024
		Software	Open source Package v3.0.5	Link	Jan, 2024
		Software	RZ/V2L DRP-AI Support Package v7.41	Link	Jan, 2024
		Software	RZ/V2L ISP Support Package v1.30	Link	Jul, 2023
		Software	Graphics Library Evaluation Version v1.2.0	Link	Jan, 2024
		Software	Video Codec Library Evaluation Version v1.2.0	Link	Jan, 2024
		Software	AI Demo SD image(Object Detection, Pose Estimation, Classification)	Link	Jan, 2024
		Software	AI Demo Pre-build(Object Detection, Pose Estimation, Classification)	Link	Jan, 2024
		Tool	DRP-AI Translatorv1.83	Link	Sep, 2023
	Old Version Software & Tools				
		Software	RZ/V Verified Linux Package [5.10-CIP] v3.0.4	Link	Jul, 2023
		Software	Open source Package v3.0.4	Link	Jul, 2023
		Software	RZ/V2L DRP-AI Support Package v7.40	Link	Jul, 2023
		Software	RZ/V2L ISP Support Package v1.30	Link	Jul, 2023
		Software	Graphics Library Evaluation Version v1.1.0	Link	Jul, 2023
		Software	Video Codec Library Evaluation Version v1.1.0	Link	Jul, 2023
		Software	CM33 Multi-OS Package v1.11	Link	Jul, 2023
		Tool	DRP-AI Translatorv1.82	Link	Mar, 2023
	Old Version Software & Tools				
		Software	RZ/V Verified Linux Package 3.0.0 update2	Link	Aug, 2022
		Software	Open Source Software Package	Link	Aug, 2022
		Software	RZ/V2L DRP-AI Support Package v7.20	Link	Oct, 2022
		Software	RZ/V2L ISP Support Package v1.20	Link	Jul, 2022
		Software	Graphics Library v1.21	Link	Oct, 2022
		Software	Codec Library v0.58	Link	Oct, 2022
		Software	CM33 Multi-OS Package v1.02	Link	Oct, 2022
		Tool	DRP-AI Translatorv1.80	Link	Sep, 2022