

RZ/T2H Easy Download Guide

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Step	Product information	Contents Type	Contents name	Link	Video
1	Data Sheet	Document	Data Sheet	Link	
	User's Manual	Document	User's Manual:Hardware	Link	
	Flyer	Document	Renesas RZ/T2H Group	Link	
	60 seconds Video	Video	Best-in-Class Quad-Core Application Processors for Motor Control Solutions		Link
	Product introduction video	Video	RZ/T2H 9-axis Motor control demo		Link
	Blog	WEB	RZ/T2H - OpenAMP Overview and Core-to-Core Communication Best-in-Class Microprocessor for Network Platform Development	Link	Link

Step	Launch of board and evaluation environment	Contents Type	Contents name	Link	Video		
1	Board Information/ how to get	Info/Purchase	RZ/T2H Evaluation Board Kit WEB page	Link			
2	How to start up the board	Document	RZ/T2H Evaluation Board Kit Quick Start Guide	Link			
		Document	RZ/T2H Evaluation Board Kit User's Manual	Link			
		Document	RZ/T2, RZ/N2 Group Quick Start Guide: Firmware Update Application Note	Link			
		Video	RZ/T RZ/N FSP Tutorial -Pin Configuration Funtion		Link		
		Video	RZ/T RZ/N FSP Tutorial - FSP Configuration (1/2) Introduction of Tabs		Link		
		Video	RZ/T RZ/N FSP Tutorial - FSP Configuration (2/2) How t Use		Link		
3	How to start up the board	Document	RZ/T2, RZ/N2 Getting Started with Flexible Software Package	Link			
3-1	Renesas e ² studio +FSP	exe file	Installer of e ² studio and RZ/T2 FSP	Link	Link		
	Segger社 J-Link	Tool Info/Get	J-Link	Link			
3-2	IAR Embedded Workbench for Arm	Tool Info/Get	IAR Embedded Workbench for Arm(ver.9.60.2 or later)	Link			
	IAR社 I-jet ICE	Tool Info/Get	I-jet	Link			
3-3	smart configurator for EWARM +FSP	exe file	Installer of RZ/T2 FSP SC and FSP (for IAR Embedded Workbench)	Link	Link		
	FSP	Zip File	RZ/T2 FSP Packs	Link			
	EWARM_Patch_for_RZT2H	Zip File	EWARM patch for RZ/T2H	Link			
4	How to get various software	Sample Program	RZ/T2H Example program → For detail, see next page	Link			
		Sample Program	RZ/T2H Group Security Solution Package	Link			
		Sample Program	RZ/T2, RZ/N2 Group Device Setup Guide for Flash Boot Sample Program	Link			
		4-1	Endoder I/F Sample Program	Sample Program	RZ/T2, RZ/N2 Group Quick Start Guide: Firmware Update	Link	
				Sample Program	RZ/T2H Group ENCOUTSample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F A-format Sample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F Biss-C Sample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F EnDat Sample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F HIPERFACE DSL Sample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F HIPERFACE DSL Safty Sample Program	Link	
				Sample Program	RZ/T2H Group Endoder I/F SSI Sample Program	Link	
		4-2	Industrial Network Sample Program	Sample Program	RZ/T2H Group Endoder I/F FA-CODER Sample Program	Link	
				Sample Program	RZ/T2H Group EtherCAT Sample Program	Link	
				Sample Program	RZ/T2H Group Modbus Sample Program	Link	
				Sample Program	RZ/T2H Group EtherNet/IP OpENer Sample Program	Link	
		Sample Program	RZ/T2H Group lWiP Protocol Stack Sample Program Package	Link			

Step	Linux environment	Contents Type	Contents name	Link	Video
1	Set up Linux environment				
	1-1	RZ/T2H Linux Software Package [V5.10-CIP]	WEB	Linux Software Package for RZ/T2H Group	Link
	1-2	RZ/T Multi-OS Package	WEB	Software package for developing multi-OS solutions consisting of RZ/T Flexible Software Package (FSP) and OpenAMP	Link
	1-3	RZ MPU Security Package (Linux OS)	WEB	Security Package for RZ MPU, to be used with Linux Package for T2H	Link

Step	Motor Solution	Contents Type	Contents name	Link	Video
1	Board Information/ how to get				
	1-1	RZ/T2H Evaluation Board Kit	Board Info.	RZ/T2H Evaluation Board Kit Web page	Link
	1-2	RZ/T Series Inverter Board (w/o Motor)	Board Info.	Inverter board for easy evaluation of Motor control using BLDC Motor	Link
	1-3	RZ/T Series Inverter Board Kit (w/ Motor)	Board Info.	Inverter board kit for easy evaluation of Motor control using BLDC Motor	Link
2	9-Axis Motor Control Sample Program	Board Info.	Interface board between inverter board and RZ/T2H EVKIT	Link	
		Sample Program	RZ/T2H Program Writing Guide	Link	
		Sample Program	RZ/T2H Vector Control for Permanent Magnetic Synchronous Motor with Encoder (9-axis)	Link	
		Sample Program	Startup Manual (RZ/T2H Motion Control Utility)	Link	
		Video	RZ/T2H 9-axis Motor Control Demo Video		Link

Step	Custom board development	Contents Type	Contents name	Link	Video
	Design Guide	Document	RZ/T2H, RZ/N2H Group Hardware Design Guide	Link	
	IBIS (for LSI)	IBIS	RZ/T2H 729pin IBIS	Link	
		IBIS	RZ/T2H PCIe IBIS	Link	
	Boundary Scan Description Language	BSDL	RZ/T2H (R9A09G077GBG) BSDL	Link	
	Semiconductor Package Mount Manual	Document	Semiconductor Package Mount Manual	Link	

RZ/T2H Example program Detail

Category	Function	Module name	File name	Video
Event Link	Event Link Controller	r_elc	RZT2H_EVB_elc_Rev200.zip	
System	Clock Generation Circuit	r_cgc	RZT2H_EVB_cgc_Rev200.zip	
	Cyclic Redundancy Check(CRC) Calculator	r_crc	RZT2H_EVB_crc_Rev200.zip	
	Data Operation Circuit	r_doc	RZT2H_EVB_doc_Rev200.zip	
	MCU Board Support Package	r_tfu	RZT2H_EVB_tfu_Rev200.zip	
	Temperature Sensor Unit	r_tsu	RZT2H_EVB_tsu_Rev200.zip	
Timer, Peripheral Function	Analog to Digital Converter	r_adc	RZT2H_EVB_adc_Rev200.zip	
	I/O Ports	r_ioport	RZT2H_EVB_bsp_Rev200.zip	
	Compare Match Timer	r_cmt	RZT2H_EVB_cmt_Rev200.zip	
	Compare Match Timer W	r_cmtw	RZT2H_EVB_cmtw_Rev200.zip	
	Delta-sigma interface, General PWM Timer, Port Output Enable for GPT	r_dsmif r_gpt r_poeg	RZT2H_EVB_dsmif_gpt_poeg_Rev200.zip	
	General PWM Timer, General PWM Timer phase count Motor Control Driver	r_gpt r_gpt_phase_count	RZT2H_EVB_gpt_phase_count_Rev200.zip	
	Multi-Function Timer Pulse Unit 3 phase count Motor Control Driver	r_mtu3_phase_count	RZT2H_EVB_mtu3_phase_count_Rev200.zip	
	Multi-Function Timer Pulse Unit 3, Multi-Function Timer Pulse Unit 3 Three-Phase Motor Control Driver, Port Output Enable 3	r_mtu3 r_mtu3_three_phase r_poe3	RZT2H_EVB_mtu3_poe3_Rev200.zip	
	Multi-Function Timer Pulse Unit 3	r_mtu3	RZT2H_EVB_mtu3_Rev200.zip	
	Real Time Clock	r_rtc	RZT2H_EVB_rtc_Rev200.zip	
Direct Memory Access	Direct Memory Access Controller	r_dmac	RZT2H_EVB_dmac_Rev200.zip	
Communication Interface	Controller Area Network Flexible Data	r_canfd	RZT2H_EVB_canfd_Rev200.zip	
	Ethernet, Ethernet PHY, Ethernet SWITCH, Ethernet SELECTOR	r_ether r_ether_phy r_ether_switch r_ether_selector	RZT2H_EVB_Ethernet_Rev200.zip	
	Expanded Serial Peripheral Interface (xSPI) HyperBus	r_xspi_hyper	RZT2H_EVB_HyperRAM_Rev200.zip	
	IIC Master on IIC	r_iic_master	RZT2H_EVB_iic_master_Rev200.zip	
	IIC Slave on IIC	r_iic_slave	RZT2H_EVB_iic_slave_Rev200.zip	
	PCI Express 3.0 Interface,	r_pcie_ep r_pcie_rc	RZT2H_EVB_pcie_Rev200.zip	
	IIC Master on IIC	r_iic_master	RZT2H_EVB_sci_iic_master_Rev200.zip	
	IIC Slave on IIC	r_iic_slave	RZT2H_EVB_iic_slave_Rev200.zip	
	Serial Communications Interface (SCI) UART	r_sci_uart	RZT2H_EVB_sci_uart_Rev200.zip	
	Serial Peripheral Interface	r_spi	RZT2H_EVB_spi_Rev200.zip	
	USB Host Communications Device Class Driver	r_usb_hcdc	RZT2H_EVB_usb_hcdc_Rev200.zip	
	USB Host Human Interface Device Class Driver	r_usb_hhid	RZT2H_EVB_usb_hhid_Rev200.zip	
	USB Host Mass Storage Class Driver	r_usb_hmsc	RZT2H_EVB_usb_hmsc_Rev200.zip	
	USB Peripheral Communications Device Class	r_usb_pcdc	RZT2H_EVB_usb_pcdc_Rev200.zip	
	USB Peripheral Mass Storage Class	r_usb_pmsc	RZT2H_EVB_usb_pmsc_Rev200.zip	
	Expanded Serial Peripheral Interface (xSPI) OSPI	r_xspi_ospi	RZT2H_EVB_xspi_ospi_Rev200.zip	
Expanded Serial Peripheral Interface (xSPI) QSPI	r_xspi_qspi	RZT2H_EVB_xspi_qspi_Rev200.zip		
Other	FreeRTOS Port	rm_freertos_port	RZT2H_EVB_FreeRTOS_Rev200.zip	
	FreeRTOS Plus TCP	rm_freertos_plus_tcp	RZT2H_EVB_FreeRTOSplusTCP_Rev200.zip	