

Step	Product information	Contents Type	Contents name	Link	Video
1	Flyer	Document	Renesas RZ/T2M Group	Link	
	Datasheet	Document	Datasheet	Link	
	User's Manual	Document	User's Manual:Hardware	Link	
	60 seconds video	video	RZ/T2M MPU Enables Next-Generation Real-Time Motor Control		Link
	Product introduction video	video	Renesas RZ/T2M industrial Grade Motor Control Solution		Link
	Blog		How to Develop High-Performance and Multi-Functional Servo Motor Using RZ/T2M?	Link	
	Webinar	video	Build Top-Notch Servo Controllers with Industrial Ethernet and Functional Safety	Link	

Step	Launch of board and evaluation environment	Contents Type	Contents name	Link	Video
1	Board Information/ how to get	Info/Purchase	Renesas Starter Kit+ for RZ/T2M Web page	Link	
2	How to start up the board	Document	Renesas Starter Kit+ for RZ/T2M Quick Start Guide	Link	
		Document	Renesas Starter Kit+ for RZ/T2M User's Manual	Link	
		video	RZ/T2M RZ/T2L RZ/N2L Boot Mode Overview		Link
		video	RZ/T RZ/N FSP Tutorial -Pin Configuration Funtion		Link
		video	RZ/T RZ/N FSP Tutorial for FSP Configuration (1/2) - Introduction of Tabs		Link
3	Evaluation Environment start-up method	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 J-Link	Tool Info/Get	J-Link	Link	
3-2	IAR Embedded Workbench for Arm	Tool Info/Get	IAR Embedded Workbench for Arm(ver.9.30.1 or later)	Link	
	IAR I-jet ICE	Tool Info/Get	I-jet	Link	
	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	
3-3	Flexible Software Package(FSP)	Tool Info/Get	GitHub : renesas/rzt-fsp	Link	
4	How to get various software	Sample Program	RZ/T2M Example program → For detail, see next page	Link	
		Sample Program	RZ/T2, RZ/N2 Group Firmware Update Sample program	Link	
		Sample Program	RZ/T2 and RZ/N2 Group Device Setup Guide for Flash boot Sample program	Link	
		Sample Program	RZ/T2M Group Example of separating loader program and application program projects	Link	
		Sample Program	RZ/T2M Group lwIP Protocol Sample Program Package	Link	Link
4-1	Encoder I/F Sample Program	Sample Program	RZ/T2, RZ/N2 Group CMSIS-DSP Library	Link	
		Sample Program	RZ/T2M Group Encoder I/F Configuration sample Program	Link	
		Sample Program	RZ/T2M Group Dual Encoder sample program	Link	
		Sample Program	RZ/T2M Group ENCOUT Sample Code	Link	
		Sample Program	RZ/T2M Group Encoder I/F A-format sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F Biss-C sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F EnDat sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F EnDat Safety sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F HIPERFACE DSL sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F HIPERFACE DSL Safety sample Program	Link	
		Sample Program	RZ/T2M Group Encoder I/F SSI sample Program	Link	
4-2	Industrial Network Sample Program	Sample Program	RZ/T2M Group Encoder I/F FA-CODER sample Program	Link	
		Sample Program	RZ/T2M Group EtherCAT Sample Program	Link	
		Sample Program	RZ/T2M Group Modbus Sample Program	Link	
		Sample Program	RZ/T2M Group EtherNet/IP OpENer Sample Program	Link	
		Sample Program	RZ/T2M Group OPC UA Server Sample Software	Link	

Step	Motor Solution Kit(DC 24V version)	Contents Type	Contents name	Link	Video
1	Board Information/ how to get	Info	RZ/T2M Motor Solution Kit Web page	Link	Link
		Schematic	RZ/T2M Motor Solution Board Circuit Diagram	Link	
2	How to start up the board	Document	RZ/T2M Group RZ/T2M Motor Solution Board Hardware Manual	Link	
2-1	Motor control using Motion Utility	Document	RZ/T2M Group RZ/T2M Motor Solution Kit Startup Manual(for RZ/T2M Motion Control Utility)	Link	Link
2-2	Motor control and FSoE Communication using EtherCAT (CiA402) and FSoE Master	Document	RZ/T2M Group RZ/T2M Motor Solution Kit Startup Manual (for EtherCAT)	Link	
		Document	RZ/T2M Motor Solution Kit Firmware (Motor Control, EtherCAT)	Link	
		Document	RZ/T2M Motor Solution Kit Firmware (Motor Control, EtherCAT)	Link	
		Video	Prepare for TwinCAT(CiA402) with RZ/T2M Motor Solution Kit		Link
		Video	FSoE Communication with RZ/T2M Motor Solution Kit		Link
		Video	CiA402 with RZ/T2M Motor Solution Kit using FuSa FW		Link
		Video	CiA402 with RZ/T2M Motor Solution Kit using Non FuSa FW		Link
		Video	Safe torque off Demonstration with RZ/T2M Motor Solution Kit		Link
2-3	Program Writing Guide	Document	RZ/T2M Motor Solution Kit Program Writing Guide	Link	
		Video	Writing Non FuSa Firmware with CiA402 for RZ/T2M motor solution kit		Link
		Video	Writing Non FuSa Firmware for RZ/T2M motor solution kit		Link
		Video	Writing FuSa Firmware with CiA402 for RZ/T2M motor solution kit		Link
		Video	Writing FuSa Firmware for RZ/T2M motor solution kit		Link
3	How to run software	Sample Program	RZ/T2M Motor Solution Kit package	Link	

Step	Motor Solution Kit(AC 220V version)	Contents Type	Contents name	Link	Video
1	Board Information/ how to get	Info	AC Servo Solution Kit	Link	
		Schematic	CN032 AC Servo Solution Design Package	Link	
2	How to start up the board	Document	CN032 AC Servo Solution Startup Guide (for Motion Control Utility)	Link	
		Document	CN032 AC Servo Solution Hardware Manual (for RZ/T2M, RZ/N2L)	Link	
		Document	CN032 AC Servo Solution Firmware Manual	Link	
		Document	CN032 AC Servo Solution Startup Guide (for EtherCAT)	Link	
3	How to run software	Sample Program	CN032 AC Servo Solution Package	Link	
Step	Custom board development	Contents Type	Contents name	Link	Video
	Design guide	Document	RZ/T2M, RZ/N2L Group Hardware Design Guide	Link	
	IBIS (for LSI)	IBIS	RZ/T2M 320pin IBIS	Link	
		IBIS	RZ/T2M 225pin IBIS	Link	
		IBIS	RZ/T2M 176pin IBIS	Link	
		IBIS	RZ/T2M 128pin IBIS	Link	
	Boundary Scan Description Language	BSDL	RZ/T2M 320pin FBGA (R9A07G075GBG) BSDL	Link	
		BSDL	RZ/T2M 225pin FBGA (R9A07G075GBA) BSDL	Link	
		BSDL	RZ/T2M 176pin LQFP (R9A07G075GFP) BSDL	Link	
		BSDL	RZ/T2M 128pin LQFP (R9A07G075GFA) BSDL	Link	
	Reliability Report	Document	R9A07G075MXXGBX Reliability Report	Link	
	Semiconductor Package Mount Manual	Document	Semiconductor Package Mount Manual	Link	
Step	Information for engineer	Contents Type	Contents name	Link	Video
As needed	FAQ	Info	RZ/T2M FAQ page	Link	
	Notes	Info			
		Document	Renesas Starter Kit+ for RZ/T2M Differences of EEPROM size	Link	
		Document	Renesas Starter Kit+ for RZ/T2M USB-Serial Conversion	Link	
		Document	Renesas Starter Kit+ for RZ/T2M: Packet Loss during Ethernet or EtherCAT Communication	Link	
		Document	Renesas Starter Kit+ for RZ/T2M: USB-Serial Conversion and Quick Start Guide	Link	
		Document	Ethernet MAC (GMAC) function issue	Link	
		Document	Withdrawal of SCI/USB authentication function	Link	
		Document	Correction on AC and temperature sensor characteristics	Link	
		Document	Site additional of package assembly and final test(PC-SOC-A006A/E)	Link	
		Document	Ethernet Switch (ETHSW) function issue	Link	

RZ/T2M Example program Detail

Category	Function	Module name	File name	Video
Memory	Shared Memory	r_shared_memory	RZT2M_RSK_shared_memory_Rev100.zip	
System	Bus State Controller	r_bsc	RZT2M_RSK_bsc_Rev100.zip	
			RZT2M_RSK_bsc_sdram_Rev100.zip	
	Clock Generation Circuit	r_cgc	RZT2M_RSK_cgc_Rev100.zip	
	Inter-CPU IRQ on ICU	r_icu_inter_cpu_irq	RZT2M_RSK_icu_inter_cpu_irq_Rev100.zip	
Timer & Peripheral	BSP Dual	-	RZT2M_RSK_bsp_dual_Rev100.zip	
	Analog to Digital Converter	r_adc	RZT2M_RSK_adc_Rev120.zip	Link
	Compare Match Timer	r_cmt	RZT2M_RSK_cmt_Rev100.zip	
	Compare Match Timer W	r_cmtw	RZT2M_RSK_cmtw_Rev100.zip	
	Delta-sigma interface	r_dsmif		Link
	General PWM Timer	r_gpt	RZT2M_RSK_dsmif_gpt_poeg_Rev120.zip	
	Port Output Enable for GPT	r_poeg		
	General PWM Timer phase count Motor Control Driver	r_gpt_phase_count	RZT2M_RSK_gpt_phase_count_Rev110.zip	
	Multi-Function Timer Pulse Unit 3 Port Output Enable	r_mtu3 r_poe3	RZT2M_RSK_mtu3_poe3_Rev120.zip	
	Multi-Function Timer Pulse Unit 3 phase count Motor Control Driver	r_mtu3_phase_count	RZT2M_RSK_mtu3_Rev100.zip	
Direct memory access	Direct Memory Access Controller	r_dmac	RZT2M_RSK_dmac_Rev100.zip	
Event Link	Event Link Controller	r_elc	RZT2M_RSK_elc_Rev100.zip	
Communication Interface	Ethernet	r_ether	RZT2M_RSK_Ethernet_Rev130.zip	
	Ethernet PHY	r_ether_phy		
	Ethernet SWITCH	r_ether_switch		
	Ethernet SELECTOR	r_ether_selector		
	Controller Area Network - Flexible Data (CAN-FD)	r_canfd	RZT2M_RSK_canfd_Rev100.zip	
	I2C Master on IIC	r_iic_master	RZT2M_RSK_iic_master_Rev100.zip	
			RZT2M_RSK_iic_master_dmac_Rev100.zip	
	I2C Slave on IIC	r_iic_slave	RZT2M_RSK_iic_slave_Rev100.zip	
	Serial Communications Interface (SCI) UART	r_scif_uart	RZT2M_RSK_sci_uart_Rev130.zip	
			RZT2M_RSK_sci_uart_dmac_Rev110.zip	
	Serial Peripheral Interface	r_spi	RZT2M_RSK_spi_Rev100.zip	
			RZT2M_RSK_spi_dmac_Rev100.zip	
	USB Peripheral Communications Device Class	r_usb_basic r_usb_pcdc	RZT2M_RSK_usb_pcdc_Rev120.zip	
	USB Peripheral Mass Storage Class	r_usb_basic r_usb_pmsc rm_block_media_user	RZT2M_RSK_usb_pmsc_Rev100.zip	
	USB Host Communications Device Class Driver	r_usb_basic r_usb_hcdc	RZT2M_RSK_usb_hcdc_Rev120.zip	
	USB Host Human Interface Device Class Driver	r_usb_basic r_usb_hhid	RZT2M_RSK_usb_hhid_Rev100.zip	
	USB Host Mass Storage Class Driver*1	r_usb_basic r_usb_hmasc	RZT2M_RSK_usb_hmasc_Rev110.zip	
	Expanded Serial Peripheral Interface (xSPI) QSPI	r_xspi_qspi	RZT2M_RSK_xspi_qspi_Rev100.zip	
			RZT2M_RSK_xspi_qspi_xip_Rev101.zip	
	Expanded Serial Peripheral Interface (xSPI) OSPI	r_xspi_ospi	RZT2M_RSK_xspi_ospi_Rev100.zip	
	HyperRAM	-	RZT2M_RSK_HyperRAM_Rev100.zip	
Other	FreeRTOS Plus TCP	rm_freertos_plus_tcp	RZT2M_RSK_FreeRTOSplusTCP_Rev100.zip	

*1 : This driver is not included in FSP.