RZ/N2L Easy Download Guide

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Step	Product information	Contents Type	Contents name	Link	Video
1	Flyer	Document	Renesas RZ/N2L Group	Link	
	Datasheet	Document	Datasheet	Link	
	User's Manual	Document	User's Manual:Hardware	Link	
	Introduction video	video	RZ/N2L MPU Enables Easy Implementation of Industrial Ethernet and TSN		Link
	Product introduction video	video	RZ/N2L Product Concept & Highlights		Link
	Blog		RZ/N2L Microprocessor to Implement Industrial Ethernet and TSN for Industrial Equi	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/N2L Web page	Link	
2		How to start up the board				
			Document	Renesas Starter Kit+ for RZ/N2L Quick Start Guide	Link	
			Document	Renesas Starter Kit+ for RZ/N2L User's Manual	Link	
			video	RZ/T2M RZ/T2L RZ/N2L Boot Mode Overview		Link
3		Evaluation Environment start-up method				
			Document	Getting Started with Flexible Software Packege	Link	
	3-1	Renesas e^2 studio ＋FSP	exe File	Installer of e² studio and RZ/N2L FSP	Link	Link
		Segger J-Link	Tool Info/Get	J-Link	Link	
	3-2	IAR Embedded Workbench for Arm	Tool Info/Get	Installer of EWARM(ver.9.30.1 or later)	Link	
		IAR I-jet ICE	Tool Info/Get	I-jet	Link	
		smart configurator for EWARM ＋FSP	exe File	RZ/N2L FSP SC and FSP Installer(for IAR Embedded Workbench)	Link	Link
		FSP	Zip File	RZ/N2 FSP_Packs	Link	
	3-3	Flexible Software Package(FSP)	Tool Info/Get	GitHub : renesas/rzn-fsp	Link	
	3-4	BACnet Start up	Tool Info/Get	BACnet Start up	Link	
4		How to get various software				
			Sample Program	RZ/N2L Example program →For detail, see next page	Link	
			Sample Program	RZ/T2, RZ/N2 Group Firmware Update Sample program	Link	
			Sample Program	RZ/T2, RZ/N2 Group Device Setup Guide for Flash boot Sample program	Link	
			Sample Program	RZ/N2L Group Example of separating loader program and application program projects	Link	
			Sample Program	RZ/N2L Group TCP/IP lwIP Sample Program Package	Link	
			Sample Program	RZ/N2L Group SHOSTIF Sample program Package	Link	
			Sample Program	RZ/T2, RZ/N2 Group CMSIS-DSP Library	Link	
	4-1	Encoder I/F Sample Program	Sample Program	RZ/N2L Group Encoder I/F SSI sample Program	Link	
			Sample Program	RZ/N2L Group Encoder I/F FA-CODER sample Program	Link	
	4-2	Industrial Network Sample Program	Sample Program	RZ/N2L Group EtherCAT Sample Program	Link	Link
			Sample Program	RZ/N2L Group Modbus TCP Sample Program Package	Link	
			Sample Program	RZ/N2L Group EtherNet/IP OpENer Sample Program Package	Link	
			Sample Program	RZ/N2L Group OPC UA Server Sample Software	Link	
	4-3	Building Automation Sample Program	Sample Program	RZ/N2L BACnet Sample Software	Link	Link
			Sample Program	RZ/N2L BACnet to OPC UA Gateway Sample Software	Link	

Step	Motor Slution Kit(AC 240V 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	RZ/N2L Industrial Network SOM Kit	Contents Type	Contents name	Link	Video
1	Board Information/ how to get				
		Info	YCONNECT-IT-RZN2L web page	Link	
		Zip File	RZ/N2L Industrial Network SOM Kit Design Data+F:F	Link	
2	How to start up the board				
		Document	RZ/N2L Industrial Network SOM Kit User's Manual	Link	
		Document	RZ/N2L Industrial Network SOM Kit Startup Guide: LED Blinky Sample Program	Link	
3	How to get various software				
		Sample Program	RZ/N2L Industrial Network SOM Kit Software Package	Link	
		Document	Application Note: HTTP Server Sample Program	Link	
		Document	Application Note: EtherCAT Slave Software	Link	
		Document	Application Note: EtherCAT CiA402 Slave Software	Link	
		Document	Application Note: EtherNet/IP OpENer Sample Program	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/N2L 225pin IBIS	Link	
		IBIS	RZ/N2L 121pin IBIS	Link	
	Boundary Scan Description Language	BSDL	RZ/N2L 225pin FBGA (R9A07G084GBG) BSDL	Link	
		BSDL	RZ/N2L 121pin FBGA (R9A07G084GBA) BSDL	Link	
	Reliability Report	Document	R9A07G084MXXGBX 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/N2L FAQ page	Link	
	Notes	Info			
		Document	Renesas Starter Kit+ for RZ/N2L Differences of EEPROM size	Link	
		Document	Renesas Starter Kit+ for RZ/N2L: Quick Start Guide	Link	
		Document	Ethernet MAC (GMAC) function issue	Link	
		Document	Withdrawal of SCI/USB authentication function	Link	
		Document	Renesas Starter Kit+ for RZ/N2L: Free Replacement	Link	

RZ/N2L Example program Detail

Category	Function	Module name	File name
System	Bus State Controller	r_bsc	RZN2L_RSK_bsc_Rev100.zip
		r_bsc_sdram	RZN2L_RSK_bsc_sdram_Rev100.zip
	Clock Generation Circuit	r_cgc	RZN2L_RSK_cgc_Rev100.zip
Timer & Peripheral	Analog to Digital Converter	r_adc	RZN2L_RSK_adc_Rev100.zip
	Compare Match Timer	r_cmt	RZN2L_RSK_cmt_Rev100.zip
	Compare Match Timer W	r_cmtw	RZN2L_RSK_cmtw_Rev100.zip
	Delta-sigma interface	r_dsmif	RZN2L_RSK_dsmif_gpt_poeg_Rev110.zip
	General PWM Timer	r_gpt	
	Port Output Enable for GPT	r_poeg	
	Multi-Function Timer Pulse Unit 3 Port Output Enable	r_mtu3	RZN2L_RSK_mtu3_poe3_Rev120.zip
		r_poe3	
Direct memory access	Direct Memory Access Controller	r_dmac	RZN2L_RSK_dmac_Rev100.zip
Event Link	Event Link Controller	r_elc	RZN2L_RSK_elc_Rev100.zip
Communication Interface	Ethernet	r_ether	RZN2L_RSK_Ethernet_Rev110.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	RZN2L_RSK_canfd_Rev110.zip
	I2C Master on IIC	r_iic_master	RZN2L_RSK_iic_master_Rev100.zip
			RZN2L_RSK_iic_master_dmac_Rev100.zip
	I2C Slave on IIC	r_iic_slave	RZN2L_RSK_iic_slave_Rev100.zip
	Serial Communications Interface (SCI) UART	r_scif_uart	RZN2L_RSK_sci_uart_Rev110.zip
			RZN2L_RSK_sci_uart_dmac_Rev110.zip
	Serial Peripheral Interface	r_spi	RZN2L_RSK_spi_Rev100.zip
			RZN2L_RSK_spi_dmac_Rev100.zip
	USB Host Communications Device Class Driver	r_usb_basic	RZN2L_RSK_usb_hcdc_Rev120.zip
		r_usb_hcdc	
	USB Host Mass Storage Class Driver	r_usb_basic	RZN2L_RSK_usb_hmsc_Rev110.zip
		r_usb_hmasc*	
	USB Peripheral Communications Device Class	r_usb_basic	RZN2L_RSK_usb_pcdc_Rev120.zip
		r_usb_pcdc	
	Expanded Serial Peripheral Interface (xSPI) QSPI	r_xspi_qspi	RZN2L_RSK_xspi_qspi_Rev110.zip
	Expanded Serial Peripheral Interface (xSPI) OSPI	r_xspi_ospi	RZN2L_RSK_xspi_ospi_Rev110.zip
Other	FreeRTOS Plus TCP	rm_Freertos_plus_tcp	RZN2L_RSK_FreeRTOSplusTCP_Rev120.zip
	- *1	-	RZN2L_RSK_HyperRAM_Rev100.zip

*1: This program does not use any mainly modules.