

Handbook for RX261,260

The information/materials required at the time of product development summarized and listed for each development phase.

Please use it as a handbook when developing.

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Step1: MCU selection

Item		Content	Link
1	Hardware information	Datasheet	Doc
2	Products & Solutions	Video	261: Web site
			260: Web site
3		Blog	261: Web site
			260: Web site
4	Reference Designs (Winning combination)	261: Web site	
		260: Web site	
5	Product longevity program (PLP)	Overview of Product Longevity Program (PLP)	Web site
6		Product selection (product selector) Note: Refer to PLP column in the chart.	261: Web site 260: Web site
7	Replacement information	Differences of specification among RX products	Doc
8		[SH/H8/H8S/H8SX/M16C/V850] → RX microcontroller migration guide	Doc
9		Design guide for migration between RX family differences in package external form	Doc

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Step2: Designing and evaluating

Item		Content	Link
Common			
1	Hardware information	User's manual: Hardware	Doc
2		RX family hardware manual guidance (how to read user's manual: hardware)	Doc
3		Product change notice (PCN) *Select "Product change notice" from the options to the left of the Documentation section.	261:Web site
			260:Web site
4		Part number guide for RX family product (the meaning of character in part number)	261: Doc
			260: Doc
5		Semiconductor reliability handbook	Doc
6	RELIABILITY REPORT	261: Doc	
		260: Doc	
7	RoHS Product Options → Part Number → Package information → RoHS Info	261: Web site	
		260: Web site	
8	Software information	Instruction set for RXv3 core architecture (user's manual)	Doc
9	Evaluation board (for general purpose)	Evaluation Kit	Web site
10		Fast Prototyping Board(low-cost model)	Web site
11	Solution board	Capacitive touch evaluation system for RX261	Web site
12	Partner information	Partner products (system solutions provider)	Web site
13		Partner products (trusted technology partners that deliver commercial-grade building blocks)	Web site
Hardware design			
1	Design information	Hardware design guide	Web site
2		Design guide for main clock circuit and Sub-Clock circuit	Doc
3		Notes regarding high-temperature operation	Doc
4		Guidelines for full-speed USB2.0 board design	Doc
5	Board simulates	ECAD, board simulation model (IBIS) Note: ECAD can be found by clicking on the respective part number of the product options. 	261: Web site
			260: Web site
6	Other	Resonator and matching circuit information	261: Web site
			260: Web site
7		Package information (package outline information, mount manual, etc.)	Web site
8	Development environment	Supplemental user's manual for E1/E20/E2 Lite/E2 emulator	Doc

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Item		Content		Link
Software design				
1	Software information	Getting started with the RX family development environment		Web site
2		Development tools for RX family		Web site
3		Software environment (OS, middleware, drivers)		Web site
4		RX smart configurator user's guide (tools for code generation)		Doc
5	Training information	Smart configurator tutorial - create a LED blinking program using RX family MCU		Web site
6		How to use tools and solutions (video clips)		Web site
7	System design	Examples of snooze mode usage		Doc Sample
8		Examples of transitioning to low power consumption modes		Doc Sample
Solution				
1	Security	Support tools for secure functions	Security key management tool manual	Web site
2		Hardware security IP driver	RSPI (RSIP-E11A) driver	Doc Sample
3		Other information	Video	Web site
4	GUI	Portal page	Graphical user interface (GUI) solutions	Web site
5		Support information	RX family LCD-related FAQ list	Web site
6			QE for display GUI display application development guide using serial connection LCD	Doc
7			GUI sample program using serial LCD and emWin library	Doc Sample
8			Module for image rendering (emWin)	Doc Sample
9	Capacitive touch	Portal page	Capacitive touch sensor solution	Web site
10		Design guide	First step guide (CTSUS Capacitive touch introduction guide)	Doc
11			The electrode design guide for capacitive touch (CSTU)	Doc
12			Capacitive touch noise immunity guide	Doc
13			The development guide for capacitive touch applications using QE and FIT	Doc

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Item		Content		Link
Solution				
14	Capacitive touch	Application notes	The development guide for 3D gesture recognition application using QE for capacitive touch	Doc
15			How to use QE for capacitive touch for renesas RX family with IAR EWRX	Doc
			QE for capacitive touch advanced mode parameter guide	Doc
16			3D Gesture demo set (hardware)	Doc
17			3D Gesture demo set sample software	Doc Sample
18	Functional safety	Portal page	Functional safety solutions for Industrial automation	Web site
19			Functional safety solution for home appliances	Web site
20		Other information	Functional safety solution for industrial automation	Doc
21			Introduction to renesas functional safety for industrial automation (video)	Web site
22			Introduction to renesas functional safety for home appliance (video)	Web site
Support				
1	Support information		FAQ (frequently asked inquiries)	Website
2			RX forum (community)	Website
3			Ask technical/sales support (support tickets)	Website

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Step3: Mass production

Item		Content		Link
1	Writing a program	Programmer	PG-FP6	Web site
2		Writing tool	Renesas flash programmer (GUI tool for PC)	Web site
3	Firmware update	Application notes	Renesas MCU firmware update design policy	Doc
4			Firmware update module using firmware integration technology	Doc Sample
5			How to manage the access control for flash memory	Doc
6	Inspection	Design information	Boundary Scan Description Language (BSDL) file	Not available

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