

[New release]

R20TS0232EJ0100

Rev.1.00

Renesas Starter Kit+ for RX65N-2MB

Nov. 16, 2017

Outline

We will release Renesas Starter Kit+ for RX65N-2MB that supports the RX65N (code flash 2MB product).

1. Overview

Renesas Starter Kit+ for RX65N-2MB is a starter kit intended for novice users of the RX65N (code flash 2MB product).

The kit includes all the following hardware and software necessary for development, so you can evaluate the RX65N immediately.



Figure 1 e² studio Edition

(A dedicated installer disk comes with the CS+ Edition.)

➤ Hardware

- CPU board with the RX65N (code flash 2MB product) device mounted
- Pmod-compatible LCD board
- E2 emulator Lite
- 5V AC adapter (Multi Region)

➤ Software (e² studio edition)

- e² studio integrated development environment
- Evaluation version of C/C++ Compiler Package for RX Family
- Sample programs

* The product does not come with a dedicated installer disk. You can install all the software products at once from the Renesas website.

- Software (CS+ edition)
 - CS+ integrated development environment
 - Evaluation version of C/C++ Compiler Package for RX Family
 - Evaluation version of Renesas Flash Programmer
 - Sample programs

For details of Renesas Starter Kit+ for RX65N-2M, refer to the URL below.

<https://www.renesas.com/rskrx65n-2mb>

2. Features

- The RX65N containing Trusted Secure IP mounted on the product allows evaluation of solid security functions such as the common key encryption, RSA Public key encryption, and SHA Hash function^(Note 1).
[Click here for details of security function](#)
- A 4.3-inch TFT display with capacitive touch screen facilitates evaluation of graphic LCD controllers.
- An Ethernet PHY controller facilitates Ethernet communications.
- Wireless LAN evaluation is possible by using the product in combination with the wireless LAN expansion board package for RSK ([RTK0ZZZZZP00000BR#WS](#)) that is sold separately.
- The product is equipped with one channel of USB that allows evaluation of hosts and functions.
- Evaluation of CAN, RSPI (Renesas Serial Peripheral Interface), and QSPI (Quad Serial Peripheral Interface) is also possible.
- An SD card slot facilitates SDHI evaluation.

Note 1: The product part name (orderable part name) varies depending on whether the product has the encryption function.

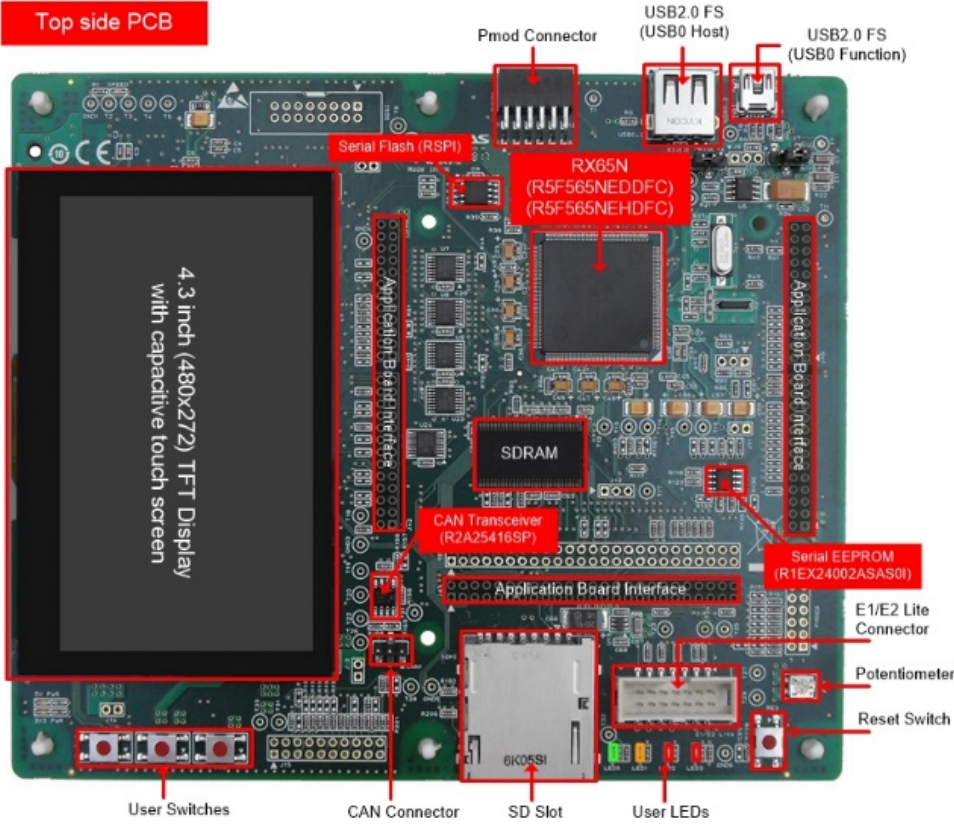


Figure 2 Top Side of the CPU Board

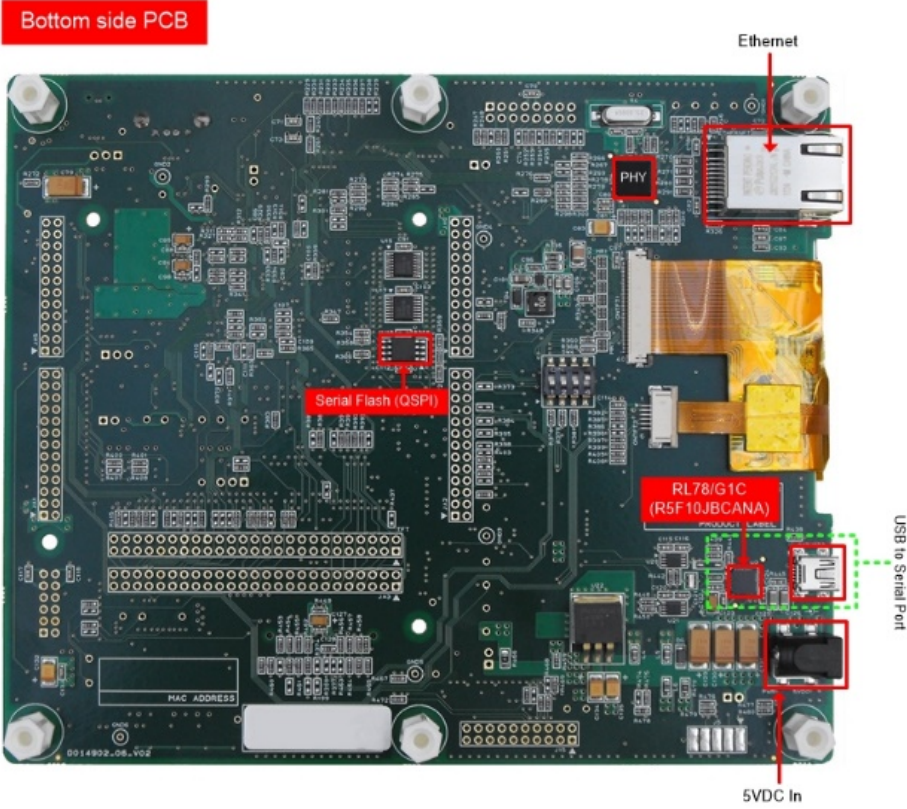


Figure 3 Bottom Side of the CPU Board

3. Operating Environment

- IBM PC/AT compatible
- Windows® 10 (32-bit edition, 64-bit edition)
- Windows® 8.1 (32-bit edition, 64-bit edition)
- Windows® 7 (32-bit edition, 64-bit edition)
- Processor: 1GHz or more (hyper-threading and multi-core CPU are supported)
- Memory capacity: 2GB or greater is recommended. At least 1GB is required (Windows 10 and a 64-bit edition of Windows require at least 2GB).
- Hard disk capacity: At least 1GB of free space
- Display: Resolution of at least 1024 × 768, with 65536 or more colors

4. How to Purchase the Product

For product ordering, contact your local Renesas Electronics marketing office or distributor with the following information.

For product pricing, make inquiries in the same manner.

Part Number (Ordering Number)	RX65N Encrypt Function	Emulator	IDE	AC/DC Adapter		Shipper
				Plug Type	DOE CEC Level	
YRTK50565N2S00000BE	Not Supported	E2 Lite	e ² studio	Multi Region	Level 6	UK
YRTK50565N2S00010BE	Supported	E2 Lite	e ² studio	Multi Region	Level 6	UK
RTK50565N2S00000BE	Not Supported	E2 Lite	CS+	Multi Region	Level 6	UK
RTK50565N2S10000BE#WS ^{*1} ^{*2}	Not Supported	E2 Lite	CS+	For use in Japan only	Level 5 ^{*3}	Japan
RTK50565N2S10000BE ^{*1}	Not Supported	E2 Lite	CS+	For use in Japan only	Level 5 ^{*3}	Japan
RTK50565N2S10010BE ^{*1}	Supported	E2 Lite	CS+	For use in Japan only	Level 5 ^{*3}	Japan
RTK50565N2S80000BE ^{*1}	Not Supported	None	CS+	For use in Japan only	Level 5 ^{*3}	Japan

*1: This product is not shipped to customers in the U.S. and Europe.

*2: This product is a special delivery version.

*3: Please do not export AC/DC adapter to the U.S. because this adapter does not conform to the CEC level 6 external power supply regulation of the U.S. Department of Energy (DOE).

On-sale date: The special delivery version is now available.

(We plan to continue shipment until the release of the mass-produced product.)

Mass production is scheduled for the beginning of December, 2017.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Nov. 16, 2017	-	First edition issued

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■Inquiry

<https://www.renesas.com/contact/>

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