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.

![Image of Renesas Starter Kit+ for RX65N-2MB]

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.
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® 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.

<table>
<thead>
<tr>
<th>Part Number (Ordering Number)</th>
<th>RX65N Encrypt Function</th>
<th>Emulator</th>
<th>IDE</th>
<th>AC/DC Adapter</th>
<th>Plug Type</th>
<th>DOE CEC Level</th>
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<td>YRTK50565N2S00000BE</td>
<td>Not Supported</td>
<td>E2 Lite</td>
<td>e² studio</td>
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<td>Level 6</td>
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<td>Multi Region</td>
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<td>RTK50565N2S10000BE#WS¹</td>
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<td>CS+</td>
<td>For use in Japan only</td>
<td>Level 5 ³</td>
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</table>

*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

<table>
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<th>Rev.</th>
<th>Date</th>
<th>Description</th>
<th>Page</th>
<th>Summary</th>
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<tr>
<td>1.00</td>
<td>Nov. 16, 2017</td>
<td>First edition issued</td>
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■Inquiry
https://www.renesas.com/contact/

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