[New release]

Renesas Solution Starter Kit for RX23W

- Support for Bluetooth® 5.0 Low Energy and Evaluation of Bluetooth 5.0 Communication Performance -

## Outline

We have released the Renesas Solution Starter Kit+ for RX23W that supports the RX23W group of the RX family.

## 1.   Product Overview

Renesas Solution Starter Kit for RX23W is a starter kit intended for novice users of the RX23W group incorporating the Bluetooth® 5.0 Low Energy and security functions essential for the IoT devices, and abundant peripheral functions such as touch keys.

The kit includes the following hardware necessary for development.

➢   Hardware

- CPU board with the RX23W group (code flash 512KB, pin count 85-pin) device mounted

- Pmod™-compatible LCD board
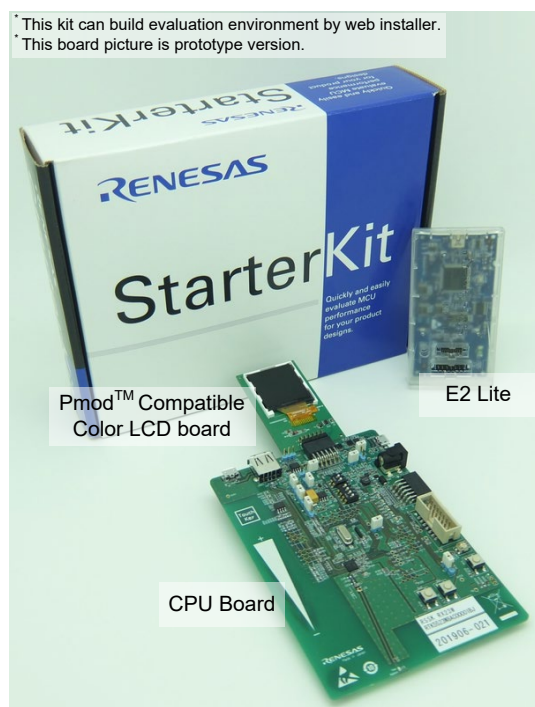
- E2 emulator Lite



Figure1   Renesas Solution Starter Kit for RX23W

➢   Software

The Renesas Solution Starter Kit+ for RX23W installer, which includes software needed for evaluation, is available at the URL below. With the Renesas Solution Starter Kit+ for RX23W and these tools, developers can start evaluation immediately.

- Download URL for Renesas Solution Starter Kit+ for RX23W

https://www.renesas.com/rsskrx23w#downloads

Software included in the Renesas Solution Starter Kit+ for RX23W installer is as follows:

- e$^2$ studio integrated development environment
- Evaluation edition of C/C++ Compiler Package for RX Family
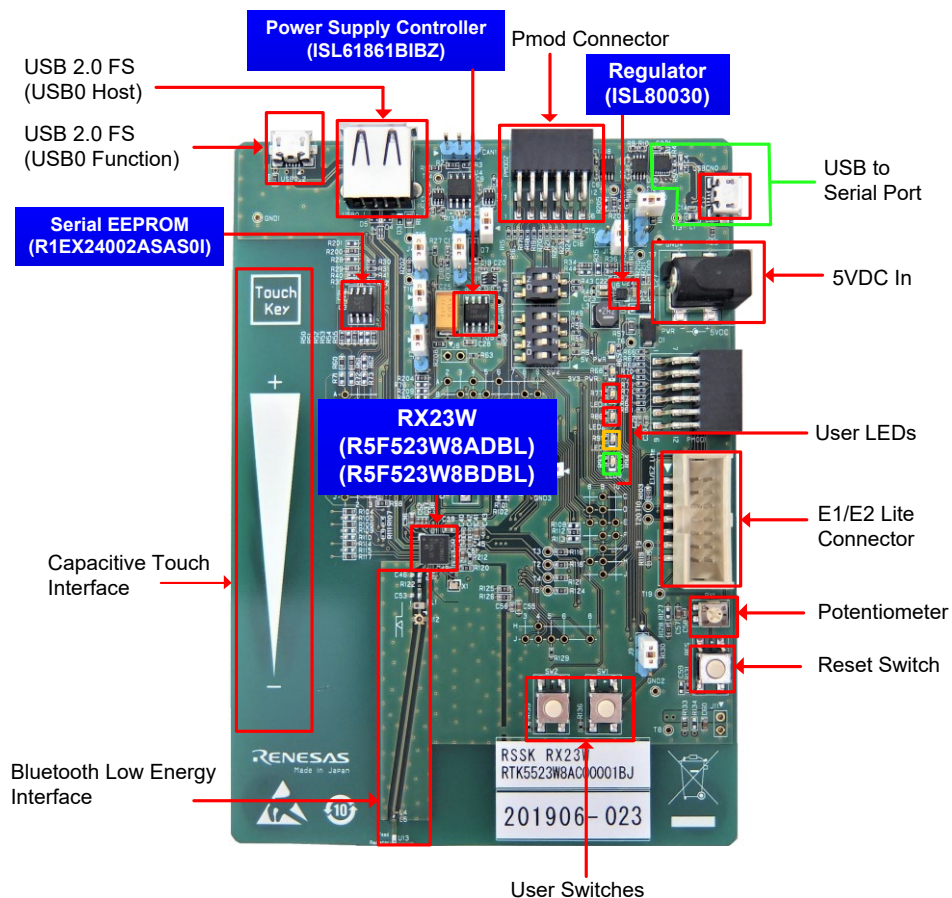- Sample programs for Renesas Solution Starter Kit+ for RX23W


For details of Renesas Solution Starter Kit+ for RX23W, refer to the URL below.

- Renesas Solution Starter Kit for RX23W Product Page
  https://www.renesas.com/rsskrx23w


## 2. Product Features

➢ Bluetooth® Low Energy that allows evaluation of Bluetooth 5 communication.

➢ A touch key (self-capacitance system) interface facilitates evaluation of touch.

➢ The product is equipped with one channel of USB that allows evaluation of hosts and functions.

The RX23W with Trusted Secure IP Lite[1] mounted on the product allowing evaluation of security functions such as AES encryption and robust key management. [1] : Trusted Secure IP Lite is a security function that protects the key for cipher-to-plain text conversion in addition to the encryption function that protects communication data.



* This board picture is prototype version.

Figure2   CPU Board (Component Side)

## 3. Operating Environment

- IBM PC/AT compatibles
- Windows® 10 (32-bit edition, 64-bit edition)
- Windows 8.1 (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 1 GB of free space
- Display: Resolution of at least 1024×768, with 65536 or more colors

## 4. Purchasing the Product

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

For product pricing, make inquiries in the same manner.

| Product Part Number (Orderable Part Number) | Trusted Secure IP Lite | Status |
|---|---|---|
| RTK5523W8AS00000BJ | No | Scheduled to start receiving orders in early June 2020 |
| RTK5523W8BS00000BJ | Yes | Scheduled to start receiving orders in early June 2020 |

## Revision History

| Rev. | Date | Description | |
|---|---|---|---|
| | | Page | Summary |
| 1.00 | Jun.01.20 | - | First edition issued |
| | | | |

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## Contact information

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit:

www.renesas.com/contact/

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