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[Upgrade to revision]

R20TS0445EJ0100

Rev.1.00

RI600V4 Real-time OS for RX Family V1.06.00

Jul. 16, 2019

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## Outline

We have updated the RI600V4 Real-time OS for RX family from V1.05.00 to V1.06.00.

### 1. Products and Versions to Be Updated

RI600V4 Real-time OS for RX family V1.01.00 to V1.05.00

### 2. Description of the Update

The main features of the update are described in the following sections. See the release note for details.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ut4483>

#### 2.1 Support for the Register Bank Save Function

The register bank save function (optional function for the RXv3 architecture) is now supported.

The register bank save function enables fast collective saving and restoring of the values of CPU registers using dedicated save register banks.

Note: When you build a sample program V1.05.00 or earlier, the warning (below) will be output.

```
O4001 (W): system.max_regbank is not defined
```

For a workaround, see the following section in the release note.

6.3.2 Configurator (1) Register Bank Save Function is supported

#### 2.2 Improved Performance When Task Analyzer is Not Used

Improvements have been made to code size reduction and program execution speed for cases where trace mode is set to [Not tracing] for the Realtime OS Task Analyzer and the C/C++ compiler package for RX family CC-RX V3.00.00 or later is used to perform a build.

#### 2.3 Addition of Kernel Library for RXv3

We have added the kernel library for RXv3 that can be linked when using the RXv3 architecture.

#### 2.4 Addition of Sample Programs for RX72T and RX72M

We have added the sample programs (CS+ edition) for the RX72T and RX72M devices which support the register bank save function.

### 3. Updating Your Product

#### 3.1 Updating Online

If you already have the RI600V4 Real-time OS for RX family, you can update your product online free of charge.

(This service will be available on July 22.)

From the Windows Start Menu, select All Programs > Renesas Electronics CS+, to start the update manager, and then proceed with updating.

### 4. Obtaining the Trial Edition

The trial edition allows for evaluation of product performance and functionality prior to purchasing.

Trial software (supported by CS+) has been updated from V1.05.00 to V1.06.00, and trial software (supported by e<sup>2</sup> studio) has been updated from V1.04.00 to V1.06.00.

Download the trial edition from the URL below. (Scheduled to be released on July 22.)

[https://www.renesas.com/ri600v4\\_download](https://www.renesas.com/ri600v4_download)

Install the product according to the instruction manual.

### 5. Purchasing the Product

To order a product, contact your local Renesas Electronics sales office or distributor with the following information.

For product pricing, contact us in the same manner.

Product name: RI600V4

Orderable Part Number: R0R5RX00TCW01w (Note)

Note: Replace the lower-case **w** at the end of the orderable part number with a letter for the agreement type listed in the table below.

Table 1 Letter to replace orderable part number **w**

Letter	Agreement Type
1	Evaluation license, limited to one host computer
A	Evaluation license, unlimited host computers
K	Mass-production license, allows embedding up to 3,000 devices, source code not included
U	Mass-production license, unlimited embedding, source code not included
Z	Mass-production license, unlimited embedding, source code included

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jul.16.19	-	First edition issued

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