

Real-Time OS RI600PX (for RX Family and Supported by CubeSuite+) Revised to V1.02.00

We have revised the real-time OS RI600PX for the RX Family of MCUs from V1.01.01 to V1.02.00.

1. Descriptions of Revision

1.1 Support for the new RXv2 CPU core architecture

In response to development of the RXv2 as the new CPU core for the RX Family, the RI600V4 real-time OS now supports the RXv2 architecture. Also, the kernel for RXv1 or RXv2 is selectable when building a system in the CubeSuite+ integrated development environment. Be sure to rebuild the sample programs we provide the first time you build programs for the new core.

1.2 Specification Change of FPSW Register Initial Value When Task Processing is Started

The initial value of the FPSW register when task processing is started has been changed into the value corresponding to compiler options to be used.

Before the change:

The FPSW does not depend on the compiler options, and the initial value is 0x00000100 (Only DN bit is 1.).

After the change:

Compiler options	Initial value of FPSW register
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"-round=nearest", "-denormalize=off"	0x00000100 (Only DN bit is 1. No change)
"-round=nearest", "-denormalize=on"	0
"-round=zero", "-denormalize=off"	0x00000101

"-round=zero", "-denormalize=on"

(Only DN bit and RM bit are 1.)
1 (Only RM bit is 1.)

1.3 Problem Fixed

The following problem, of which we informed you in RENESAS TOOL NEWS Document No. 140316/tn3, has been fixed:

- With setting of the task context register

For details of the problem, see RENESAS TOOL NEWS Document No. 140316/tn3, which is on the web page at:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=140316tn3>

This problem has been fixed by the specification change explained in Article 1.2 above.

2. Updating Yours and Ordering Revised Product

2.1 Updating

When you are using RI600PX, online updating is available free of charge.

To update yours, follow these steps:

- (1) On the Start menu of Windows, select Programs and then Renesas Electronics CubeSuite+.
- (2) Start Update Manager to update yours.

2.2 Ordering

When you place an order for the product, supply the following items of information to your local Renesas Electronics marketing office or distributor:

Product type: RI600PX

Type name: R0R5RX00PCW01w (see NOTE below)

For the price of the product, contact the above marketing office or distributor.

NOTE:

Letter w denotes a type of license. It shall be replaced with any one of the following numeral and letters:

1: Evaluation license: The real-time OS can be installed on only one host computer.

A: Evaluation license: The real-time OS can be installed on an unlimited number of host computers.

K: Mass-production license: The real-time OS can be embedded in up to 3,000 products with the source code closed.

U: Mass-production license: The real-time OS can be embedded in an unlimited number of products with the source code closed.

Z: Mass-production license: The real-time OS can be embedded in an unlimited number of products with the source code disclosed.

Example:

In the case of mass-production license for an unlimited number of products with the source code closed, the type name is R0R5RX00PCW01U.

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