

The Real-Time OS--RI600/4--for the RX Family of MCUs Published

We have published real-time OS RI600/4 V.1.00 Release 01. This product is used for the RX600 series, RX family of MCUs.

1. Outline

The RI600/4 product is a real-time OS conforming to uITRON 4.0 specifications and is used for the Renesas RX family of MCUs, which are equipped with a newly designed next-generation CPU core.

The real-time OS, having a compactly designed kernel, accomplishes high-speed real-time control. Also it has a high compatibility with our existing OSes that conforms to uITRON 4.0 specifications.

2. Features

- Conforming to an industry standard of uITRON 4.0 specifications.
- Consuming small ROM size.

You can draw the best performance out of the CPU's capabilities.

- Having a configurator with a graphical user interface (GUI).

By using this configurator, you can easily make the initial settings of OS-configuration parameters and automatically generate configuration files.

- Providing the Kernel Direct Call function.

By using RI600/4 in combination with the C/C++ compiler package for the RX family, the RI600/4 kernel can be called directly without using C-language interface library, resulting in the reduction of code size and the improvement of the execution rate.

Note, however, that several service calls use the C-language interface library.

- Running with High-performance Embedded Workshop.

The OS-oriented project-generation functions of the High-performance Embedded Workshop included in the C/C++ compiler package for the RX family automatically make settings of the options and others

necessary to build. So you can easily embed the real-time OS into the application.

For details of the specifications, go to the following Web site and see the product's datasheets:

https://www.renesas.com/ri600_4

This Web site will be opened from February 5.

The above URL is one of our global sites.

3. How to Purchase the Product

Two types of license are available: mass-production license and evaluation license. For further information, go to:

<https://www.renesas.com/itron/agreement>

The above URL is one of our global sites.

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

Product type: RI600/4

Type name: R0R5RX00TXW01w (See NOTE below.)

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 only to one host computer.

5: Evaluation license: The real-time OS can be installed up to 5 host computers.

A: Evaluation license: The real-time OS can be installed up to 10 host computers.

K: Mass-production license: The real-time OS can be embedded up to 1,000 products with the source code closed.

U: Mass-production license: The real-time OS can be embedded up to unlimited products with the source code closed.

Z: Mass-production license: The real-time OS can be embedded up to unlimited products with the source code disclosed.

Example:

For mass-production license up to unlimited productions for any MCU of the RI600 series with the source code closed, the type name is R0R5RX00TXW01U.

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