

RENESAS TOOL NEWS on June 1, 2012: 120601/tn11

## Real-Time OS RI600PX for RX Family Launched (for Integrated Development CubeSuite+)

We have launched the real-time OS for the RX MCU family RI600PX V.1.01.00, which is compatible with the integrated development environment CubeSuite+.

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### 1. Overview

RI600PX, which meets the uITRON 4.0 specifications, is an improved product of the real-time OS for the RX family RI600V4 in that it provides you with memory protection function as well as the same functionality that RI600V4 has. This product operates on the MCUs of the RX600 series that are equipped with the MPU (Memory Protection Unit).

The memory protection function enables you not only to design highly reliable systems but also easily detect errors arising from memory crashes, so that debugging can be performed in much higher efficiencies. In addition, its compactly designed kernel is effective at achieving high-speed real-time operation. It also maintains a high degree of compatibility with our existing OSes conforming to the uITRON4.0 specifications.

For the MCUs that support RI600PX, visit the Web site at:

<https://www.renesas.com/ri600px>

The above URL is one of our global sites.

### 2. Features

Main features of the product are as follows:

- Supports memory protection function.
- Conforms to the uITRON4.0 specifications, an industry standard.
- Supports dynamic generation of objects.

- Compactly designed to minimize ROM consumption:  
The product makes CPU reach in full potential.
- Provides a good interface with C language:  
When you use the CubeSuite+ CC-RX compiler (the C/C++ compiler package for the RX family), it can directly call RI600PX's kernel without using the C-language interface library, which makes code size smaller and execution speed faster.
  
- Compatible with integrated development environment CubeSuite+:  
By this compatibility, CubeSuite+ automatically selects the options necessary to build.  
In addition, the package of RI600V4 contains the tools reserved for debugging programs that use the real-time OS.
  
- Provides high portability from High-performance Embedded Workshop to CubeSuite+:  
If you open on CubeSuite+ any project that has been created by High-performance Embedded Workshop and on which RI600/PX registered, the project can be automatically converted to the project for CubeSuite+.

For details of the product, see its datasheets on the Web site at:

<https://www.renesas.com/ri600px>

The above URL is one of our global sites.

### 3. Ordering

Two types of license are available for RI600PX: mass-production license and evaluation license. For details of license agreements, see the Web site at:

<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 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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