

[Upgrade to Revision]

R20TS0791EJ0100

Rev.1.00

C/C++ Compiler Package for RX Family V3.04.00

Jan. 16, 2022

## Outline

The C/C++ Compiler Package for RX Family CC-RX has been updated from V3.03.00 to V3.04.00.

The license for V3 is required for V3.00.00 and later.

Note: The V1 license is for V1.00.00 to V1.02.01, and the V2 license is for V2.00.00 to V2.08.01.

## 1. Products to Be Updated

CC-RX V3.00.00, V3.01.00, V3.02.00, and V3.03.00

## 2. Description

The main changes are as follows. Refer to the release note in the link below for details.

(The note will be uploaded on January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/software-tool/cc-compiler-package-rx-family#document>

C/C++ Compiler Package for RX Family V3.04.00 Release Notes

### 2.1 Addition of *-type\_size\_access\_to\_volatile* Option

The *-type\_size\_access\_to\_volatile* option has been added to ensure that volatile qualified variables are accessed at the size of the variable's type.

### 2.2 Improved Compiler License Messages

The target type of license and the required actions have been added to messages regarding the compiler license.

### 2.3 Addition of a Message

When linking object files, an error will be output if there is a mismatch in the *-dbl\_size* option specification.

### 2.4 Modification of the Storage Duration of Variables

The function for improving the efficiency of reference to variables defined with the storage class specifier "static" has been enhanced.

### 2.5 Improved Code Generation for Function Calls

The code generated in cases where a function immediately below the current function is called at the end of the current function has been improved.

### 2.6 Issues Fixed

The following issues have been fixed.

- RENESAS TOOL NEWS: R20TS0698EJ0100
  1. Initializing a union in a C++ source code (No.59)
- RENESAS TOOL NEWS: R20TS0794EJ0100
  1. Use of struct/union type arguments (No.60)
  2. Cast from pointer type to other type (No.61)
  3. Use of an anonymous struct/union (No.62)
  4. Use of an address read from memory after writing the address to the memory (No.63)

## 5. Reference to global/static variables (No.64)

Refer to the tool news in the link below for the details of the problems. (R20TS0794EJ0100 will be uploaded on January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/software-tool/cc-compiler-package-rx-family#document>

[Notes] C/C++ Compiler Package for RX Family (No.59)

[Notes] C/C++ Compiler Package for RX Family (No.60-64)

## 3. Change in the C/C++ Compiler Package

The C/C++ Compiler Package no longer includes the installation medium (CD/DVD) from January 2022.

It is offered as the common compiler package for the integrated development environments (CS+ and e<sup>2</sup> studio) and the orderable part numbers have been consolidated to reflect this change.

Refer to the product web page in the link in section 5 for the part number.

The installers of the integrated development environments and the compiler packages are available on the Renesas website to download.

## 4. Updating the Product

### 4.1 Online Update

On the Windows Start menu, select [Renesas Electronics CS+] and start the [Update Manager]. (The service will be available from January 20<sup>th</sup>, 2022.)

If you are using a floating license, Software for floating license management V2.04.00 is required. Download it from the link below and install it.

<https://www.renesas.com/rx-c-download>

Software for floating license management V2.04.00

### 4.2 Downloading the Installer

Download the installer from the link below. (The installer will be uploaded on January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/rx-c-download>

RX Compiler CC-RX V3.04.00

Note that License Manager V2.04.00 is required. Download it from the link above and install it.

If you are using a floating license, Software for floating license management V2.04.00 is also required. Download it from the link above and install it.

## 5. Purchasing the Product

Contact your local Renesas Electronics sales office or distributor and inform them of the product information. Regarding the price of the product, contact the sales office or distributor.

Refer to the link below for the product name and orderable part number.

[https://www.renesas.com/rx\\_c](https://www.renesas.com/rx_c)

**Revision History**

| Rev. | Date      | Description |                      |
|------|-----------|-------------|----------------------|
|      |           | Page        | Summary              |
| 1.00 | Jan.16.22 | -           | First edition issued |
|      |           |             |                      |

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