[Upgrade to Revision]

C Compiler Package for RL78 Family [CC-RL] V1.12.00

## Outline

C Compiler Package for RL78 Family [CC-RL] has been updated from V1.11.00 to V1.12.00.

V1.12.00 includes feature enhancements and changes in specifications and restrictions on the free evaluation edition.

## 1. Products to Be Updated

CC-RL V1.00.00 to V1.11.00

## 2. Description

Main changes are as follows. For details, see the release note at the link below. (The note is applicable as of January 20.)

https://www.renesas.com/software-tool/c-compiler-package-rl78-family#documents

C Compiler Package for RL78 Family V1.12.00 Release Note

### 2.1 Changes in Specifications of Free Evaluation Edition

CC-RL V1.11.00 and earlier: The size of a linkable object was reduced to 64 KB after the evaluation period.

CC-RL V1.12.00 and later: The restriction on the size of a linkable object has been removed; however, restrictions on optimization levels have been introduced. After the evaluation period, only the optimization levels -Onothing and -Olite* are provided.

Use of the CC-RL free evaluation edition has been limited to evaluation of devices and development environments and for non-commercial purposes. After the release of V1.12.00, all the versions of CC-RL free evaluation edition (V1.00.00 and later) can be used for any purpose, including development and production of products and for commercial purposes.

Note that use of the free evaluation edition for commercial purposes is allowed during the evaluation period; however, functions provided only during the evaluation period are not allowed to be used for commercial purposes.

*The optimization level -Olite has been added to CC-RL V1.12.00 for performing medium-level optimization between -Onothing and -Odefault. (This optimization is applied partially.)

### 2.2 New Features and Improved Functionality

The following section covers the main enhancements.

#### 2.2.1 Specification of multiple -crc options

Multiple -crc options can be specified at the same time.

#### 2.2.2 Improved automatic section allocation option

The algorithm for automatic section allocation by the option -AUTO_SECTION_LAYOUT has been improved.

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### 2.2.3 Improved the -rrm option

-rrm is available in more devices.

### 2.2.4 Improved the .SECTION directive

The parameter COMDAT can be used in the .SECTION directive.

### 2.2.5 Improved the .SECTION and .CSEG directives

Flash programmer security IDs (serial programming security IDs) can be set on an assembly source file by using the .SECTION or .CSEG directive.

### 2.2.6 C++ language support (technical preview version)

The technical preview version supports the C++ language.

### 2.2.7 New options

The following options have been added.

(1) -SECURITY_OPT_BYTE

This option sets control values for security option bytes.

(2) -FLASH_SECURITY_ID

This option sets flash programmer security IDs.

(3) -SPLIT_SECTION

During automatic section allocation, this option places sections of the same name without binding the objects.

(4) -DSP_MEMORY_AREA

Use this option to avoid placing sections in memory areas designated for FLEXIBLE APPLICATION ACCELERATOR(FAA).

(5) -STRIDE_DSP_MEMORY_AREA

During automatic section allocation, this option places sections across memory areas designated for FLEXIBLE APPLICATION ACCELERATOR(FAA).

(6) -RAM_INIT_TABLE_SECTION

This option embeds the information table used for initializing the RAM area section in an executable file.

## 3. Updating the Product

## 3.1 Online Update

On the Windows Start menu, select [Renesas Electronics CS+], and then run the update manager. (The service is available as of January 20.)

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

https://www.renesas.com/rl78_c_download

## 3.2  Download the Installer

Download the installer from the link below. (The installer is available as of January 20.)

https://www.renesas.com/rl78_c_download

Note that License Manager V2.06.00 is required. Download and install it from the link above.

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

## 4.  Purchasing the Product

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

For the price of the product, contact the sales office or distributor.

For the product name and orderable part number, refer to the link below.

https://www.renesas.com/rl78_c

## Revision History

| Rev. | Date | Description | |
| --- | --- | --- | --- |
| | | Page | Summary |
| 1.00 | Jan.16.23 | - | First edition issued |
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## Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,

Koto-ku, Tokyo 135-0061, Japan

www.renesas.com

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## Contact Information

For further information on a product, technology, the most up-to-date

version of a document, or your nearest sales office, please visit:

www.renesas.com/contact/