

[Upgrade to Revision]

R20TS1250EJ0100

Rev.1.00

Jul. 20, 2026

C Compiler Package for RH850 Family V2.08.00

Outline

C Compiler Package for RH850 Family [CC-RH] has been updated to V2.08.00.

V2.08.00 includes changes to the evaluation edition specifications and functional enhancements such as support for GCC-compatible attributes and GNU linker scripts.

1. Products to Be Updated

For Windows: CC-RH V2.00.00 to V2.07.00

For Linux: CC-RH V2.06.01 to V2.07.00

The license for V2 is required for CC-RH V2.08.00.

2. Description

The main changes are as follows. For details, refer to the release note.

<https://www.renesas.com/rh850-c-documentation>

C Compiler Package for RH850 Family V2.08.00 Release Note

2.1 Changes to the Evaluation Edition Specifications

Use of the CC-RH evaluation edition was previously limited to evaluation of devices and development environments and to non-commercial purposes. However, all versions of the CC-RH evaluation edition can now be used for any purpose, including product development and commercial purposes.

In addition, the restriction applied after the evaluation period has been changed as follows:

- CC-RH V2.07.00 and earlier: Linkable object size restriction (256 KB maximum)
- CC-RH V2.08.00 and later: Optimization restrictions (only -Onothing or -Odefault can be specified)

For details, refer to the Tool News at the link below.

<https://www.renesas.com/rh850-c-documentation>

[Notification] C Compiler Package for RH850 Family (CC-RH) Changes in Specifications of Evaluation Edition

2.2 Addition of Attributes

The following GCC-compatible attributes are now supported. This enhancement enables easier migration of GCC code assets to CC-RH.

- aligned
- always_inline
- naked
- noline
- section
- weak

2.3 Addition of the -LINKER_SCRIPT Option

A linker script based on the GNU linker script format can now be used during linking. The linker script is specified using the -LINKER_SCRIPT linker option.

2.4 Addition of the -LIBRARY_DIRECTORY Option

The -LIBRARY_DIRECTORY linker option has been added, allowing users to specify directories containing library files.

2.5 Addition of the __has_include preprocessor directive

The __has_include preprocessor directive has been added, making it possible to check whether a header file exists. It returns 1 if the specified header file exists and 0 if it does not.

2.6 Improvement to the .macro Directives

When the entire parameter list of a macro definition or macro invocation using the .macro pseudo instruction in assembly language is enclosed in parentheses "()", line breaks can now be inserted within the parentheses.

2.7 Instruction Set of the G4KH core

The g4kh argument can now be specified for the -Xcpu option (compiler and assembler option) used to select the CPU core.

When the -Xcpu=g4kh option is specified, code is generated using the G4KH core instruction set during compilation. In addition, assembly of the G4KH core instruction set is supported.

2.8 Addition of Dependency File Output Specification Options

Dependency file output options have been added, allowing dependencies between source files and include files to be output to dependency files.

2.9 Rectified Points for Caution

The following point for caution has been rectified.

Note on using designators for anonymous unions or structures (No. 41)

For details about this note, refer to the Tool News at the link below.

<https://www.renesas.com/rh850-c-documentation>

[Notes] C Compiler Package for RH850 Family (No.41)

3. Updating the Product

3.1 Online update [For Windows only]

On the Windows Start menu, select [Renesas Electronics CS+], and then run the update manager.

If you are using a floating license, the Software for Floating License Management is required. Download and install it from the link below.

<https://www.renesas.com/rh850-c-download>

3.2 Download the installer

Download and install RH850 Compiler CC-RH from the link below.

<https://www.renesas.com/rh850-c-download>

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

If you are using a floating license, the Software for Floating License Management 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 product price, contact the sales office or distributor.

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

<https://www.renesas.com/rh850-c-order>

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jul.20.26	-	First edition issued

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