

[Upgrade to Revision]

R20TS0784EJ0100

Rev.1.00

CS+ Integrated Development Environment V8.07.00

Jan. 16, 2022

## Outline

The CS+ integrated development environment has been updated from V8.06.00 to V8.07.00.

### 1. Products to Be Updated

- CubeSuite+ common program  
V1.00.00 to V1.03.00, and V2.00.00 to V2.02.00
- CS+ common program  
V3.00.00 to V3.03.00, V4.00.00 to V4.03.00, V5.00.00, V6.00.00 to V6.01.00, V7.00.00, V8.00.01,  
and V8.01.00 to V8.06.00

Refer to the link below for “How to Find the Version Number in CS+”.

<https://www.renesas.com/cs+ ver>

### 2. Topic

On the main window, there are buttons on the right of the panel area. The background of the buttons becomes visually unclear in the previous revision under certain conditions. The problem has been solved in the new revision.

### 3. Description

#### 3.1 CS+ Common Program (Building, Debugging, Analytical Features etc.)

- CS+ for CC common program V8.06.00 (for RX, RH850, RL78) has been updated to V8.07.00.
- CS+ for CA,CX common program V4.06.00 (for 78K, RL78, V850) has been updated to V4.07.00.

#### (1) CS+ for CC Common Program V8.07.00 (for RX, RH850, and RL78 Families)

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/cs#document>

CS+ for CC V8.07.00 Release Note

#### (a) Improvements in the project management

- Saving and sharing of platform-dependent information files (\*.mtud)  
The properties have been added so that the user can select whether to save or share platform-dependent information files (\*.mtud) among other users. The user can also select whether to include the user's name in the names of the information files.
- Improved microcontroller list (RL78 and RH850 Families)  
The microcontrollers in the following dialog boxes are sorted alphabetically and by ROM size. The user can find one easily.
  - Create Project
  - Project Convert Settings
  - Change Microcontroller

#### (b) Improvements in the build tool

- Added support for the following compilers.

- CC-RH V2.04.00
- CC-RX V3.04.00
- CC-RL V1.11.00

- Compiler package update notification

The update notification appears on the output panel when the new version/revision of your compiler package becomes available.

- (c) Improvements in the debug tool

- Simulation of peripheral functions and current consumption (RL78 Family)

The following function is supported.

- Simplified I<sup>2</sup>C interface of the serial array unit

Added target devices for current consumption simulation of the following microcontrollers.

- RL78/G23 group\*

(\*The simulation of current consumption is available for limited devices.)

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/cs+ document>

RL78/G23 Simulator V1.02.00 Release Note

- Virtual board panel (RL78 Family)

The panel supports the following component.

- UART console

Refer to the user's manual in the link below for details. (The manual will be uploaded on January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/cs+ document>

CS+ V8.07.00 Integrated Development Environment User's Manual: RL78 Debug Tool

- Updated the simulators (RL78 Family)

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/cs+ document>

RL78/G10 Simulator V3.04.00 Release Note

RL78/G11 Simulator V2.04.00 Release Note

RL78/G12 Simulator V2.04.00 Release Note

RL78/G13, RL78/G13A Simulator V2.04.00 Release Note

RL78/G14 Simulator V2.04.00 Release Note

RL78/G1F Simulator V1.03.00 Release Note

RL78/L12 Simulator V1.04.00 Release Note

RL78/G23 Simulator V1.02.00 Release Note

- The hot plug-in function has become available in the E2 emulator Lite (RL78 Family)
- Simulator: Writing to read-only I/O registers (RH850 Family)

In the updated Instruction Simulator for RH850, I/O registers have the R/W permission (able to read and write). The user can write to read-only I/O registers except for some. The user can write temporal values to read-only I/O registers on the IOR panel or via the Python console to perform simulation.

Refer to the CS+ Instruction Simulator for RH850 V5.05.00 Release Note for details, as well as some notes on the feature. (The note will be uploaded on January 20th, 2022.)

[https://www.renesas.com/cs+\\_document](https://www.renesas.com/cs+_document)

(d) Improvements in the Python console

- Python properties have been added and deleted.

Refer to the release note in the link below for details. (The note will be uploaded on January 20th, 2022.)

<https://www.renesas.com/software-tool/cs#document>

CS+ for CC V8.07.00 Release Note

(2) CS+ for CA,CX Common Program V4.07.00 (for 78K, RL78, and V850 Families)

The main changes are as follows. Refer to the release note in the link below for details. (The note will be uploaded on January 20th, 2022.)

<https://www.renesas.com/software-tool/cs#document>

CS+ for CA,CX V4.07.00 Release Note

### 3.2 Device Information

The device information of the CS+ for CC has been updated as follows.

#### 3.2.1 CS+ Device Information for RX

The information has been updated from V3.07.00 to V3.08.00.

The following change has been made in V3.08.00.

- (1) The information has been updated for future CS+ updates.

Refer to the link below for details. (The information will be uploaded on January 20th, 2022.)

[https://www.renesas.com/cs+/eng/CSPlus\\_DevInfo\\_RX.html](https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RX.html)

#### 3.2.2 CS+ Device Information for RL78

The information has been updated from V8.06.00 to V8.07.00.

The following changes have been made in V8.07.00.

- (1) Addition of supported devices

The following devices have been added.

- RL78/F24 group

- (2) Correction of the device information

The following device information has been corrected.

- RL78/G23 group
- RL78/FGIC

Refer to the link below for details. (The information will be uploaded on January 20th, 2022.)

[https://www.renesas.com/cs+/eng/CSPlus\\_DevInfo\\_RL78.html](https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RL78.html)

#### 3.2.3 CS+ Device Information for RH850

- (1) Addition of supported devices

The following devices have been added.

- RH850/U2A6

- (2) Correction of the device information

The following device information has been corrected.

- RH850/F1KM-S1 group
- RH850/U2A group

Refer to the link below for details. (The information will be uploaded on January 20<sup>th</sup>, 2022.)

[https://www.renesas.com/cs+/eng/CSPlus\\_DevInfo\\_RH850.html](https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RH850.html)

The information of the CS+ for CA,CX has been updated as follows.

### 3.2.4 CS+ Device Information for RL78

The information has been updated from V8.05.00 to V8.07.00.

The following change has been made in V8.07.00.

#### (1) Correction of the device information

The following device information has been corrected.

- RL78/FGIC

Refer to the link below for details. (The information will be uploaded on January 20<sup>th</sup>, 2022.)

[https://www.renesas.com/cs+/eng/CSPlus\\_DevInfo\\_RL78.html](https://www.renesas.com/cs+/eng/CSPlus_DevInfo_RL78.html)

## 4. Updating the Product

Free online update is available. Note that how you update the product varies depending on the version/revision. Refer to the following sections and update accordingly.

**Note 1. If you update the CubeSuite+ to CS+ V3.01.00 or later, the free evaluation edition of the CC-RL build tool is provided.**

**The license for the C Compiler Package for the RL78 and 78K Families (CA78K0R, CA78K0) does not lift the restrictions on the CC-RL free evaluation edition. In order to lift the restrictions, purchase the commercial edition of the C Compiler Package for RL78 Family (with IDE) V1 (CC-RL).**

**Note 2. The license for the C Compiler Package for RH850 Family V1 (CC-RH) does not lift the restrictions on the free evaluation edition of V2(CC-RH) of the package. In order to lift the restrictions, purchase the commercial edition of the C Compiler Package for RH850 Family V2 (CC-RH).**

**Note 3. The licenses for the C/C++ Compiler Package for RX Family V1 and V2 (CC-RX) do not lift the restrictions on the free evaluation edition of V3(CC-RX) of the package. In order to lift the restrictions, purchase the commercial edition of the C/C++ Compiler Package for RX Family V3 (CC-RX).**

**Note 4. Refer to section 6 regarding purchase of the compiler packages.**

### 4.1 CS+ V3.00.00 or Later

Update the product in either of the following ways.

- (1) 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.)

Note: If you have started the CS+ with the Rapid Startup function enabled, exit the CS+ and start the Update Manager. If the Rapid Startup is enabled and the CS+ is shown in the Windows notification area, the following message appears, and the error occurs.

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M0120001

"CubeSuiteW+.exe"

Installation is suspended because "CubeSuiteW+.exe" is running.

It will be resumed next time you start the tool.

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- (2) Download the new revision from the link below. (It will be available from January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/software-tool/cs#download>

### 4.2 CubeSuite+ V2.00.00 to V2.02.00

Refer to section 4.1.

Make sure to change the name "Renesas Electronics CS+" in the description to "Renesas Electronics CubeSuite+".

### 4.3 CubeSuite+ V1.03.00 and earlier

The Update Manager does not support the CubeSuite+ V1.03.00 and earlier.

Download CS+ for CC V8.07.00 or CS+ for CA,CX V4.07.00 from the link below. (They will be available from January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/software-tool/cs#download>

### 5. Free Evaluation Edition

Before purchasing a compiler package, you can evaluate its performance and functionality with the evaluation edition.

The free evaluation editions of the CS+ for CC and the CS+ for CA,CX are available on the link below to download. (The installers will be available from January 20<sup>th</sup>, 2022.)

<https://www.renesas.com/software-tool/cs#download>

After installing the evaluation edition, you can convert it into the commercial edition by entering a license for the CubeSuite, CubeSuite+, or a compiler package.

## 6. Purchasing the Product

If you use the CS+ IDE for developing products, a compiler package is required. Purchase the one that suits.

Contact your local Renesas Electronics sales office or distributor regarding the compiler packages.

Regarding the prices, contact the sales office or distributor.

The CS+ supports the following packages.

- C Compiler Package for RH850 Family Professional Edition
- C Compiler Package for RH850 Family Standard Edition
- C/C++ Compiler Package for RX Family Professional Edition
- C/C++ Compiler Package for RX Family Standard Edition
- C Compiler Package for RL78 Family Professional Edition
- C Compiler Package for RL78 Family Standard Edition
- C Compiler Package for RL78 and 78K Families
- C Compiler Package for V850 Family

**Note: The compiler packages no longer include the installation medium (CD/DVD) from January 2022. The installers are available on the Renesas website to download. Refer to section 4 for some notes on the compiler packages.**

Refer to the links below for the details of the packages.

- C Compiler Package for RH850 Family: [https://www.renesas.com/rh850\\_c](https://www.renesas.com/rh850_c)
- C/C++ Compiler Package for RX Family: [https://www.renesas.com/rx\\_c](https://www.renesas.com/rx_c)
- C Compiler Package for RL78 Family: [https://www.renesas.com/rl78\\_c](https://www.renesas.com/rl78_c)
- C Compiler Package for V850 Family: [https://www.renesas.com/v850\\_c](https://www.renesas.com/v850_c)
- C Compiler Package for RL78 and 78K Families: [https://www.renesas.com/rl78\\_78k\\_c](https://www.renesas.com/rl78_78k_c)

Regarding the compiler licenses, refer to the link below.

[https://www.renesas.com/compiler\\_licenses](https://www.renesas.com/compiler_licenses)

**Revision History**

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

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