

[Upgrade to Version]
e² studio Integrated Development Environment 2022-07

R20TS0850EJ0100
Rev.1.00
Jul. 16, 2022

Overview

We have updated the e² studio integrated development environment from 2022-01 to 2022-04.

Major functional improvements and changes are as follows.

- Upgrade versions of Eclipse platform and CDT (C/C++ Development Tooling)
- Support of CC-RH compiler for RH850 single core devices
- Support of new device group RZ/T2M
- Support of new versions of Smart Configurator for RX (2.14.0)

For an overview of the product, refer to the following URL:

<https://www.renesas.com/e2studio>

1. Version to Be Updated

- e² studio versions from 2020-04 to 2022-04

To check the version of e² studio, click the [Help] menu of e² studio > [About e² studio] to open the dialog box.

2. Description of Upgrade

The main contents of the upgrade are described below. Refer to the release note below for details. The release note is available in the [Documentation] list on the e² studio product page. It will be available from July 20th.

[https://www.renesas.com/search/keyword-search.html?q="R20UT5162"&genre=document](https://www.renesas.com/search/keyword-search.html?q=)

2.1 New functions, Improvements to Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2022-07?” in the release note listed above.

2.1.1 New eclipse/CDT platform support

2022-07 includes a new eclipse platform and new version of CDT (C/C++ Development Tooling). Please refer to the following documents from www.eclipse.org for further information about the eclipse/CDT updates.

| e ² studio version | 2022-04 | 2022-07 | |
|-------------------------------|---------------|---------------|--|
| eclipse | 4.22(2021-12) | 4.23(2022-03) | Eclipse Project 4.23 |
| CDT | 10.5.0 | 10.6.0 | eclipse Wiki – New in CDT 10.6 |

2.1.2 Added compiler support

C Compiler Package for RH850 Family is newly supported for single core devices of RH850 Family.

Project generation and project build features with the toolchain is supported for the devices. Multiple core devices are planned to be supported in future versions of e² studio.

2.1.3 New devices support

The RZ/T2M group is newly supported.

Devices of this group are supported features of project generation, project build and debugging.

Flexible Software Package (FSP) for Renesas RZ/T series is also available for RZ/T2M group. Please refer to the following Web page about FSP:

<https://github.com/renesas/rzt-fsp/releases>

2.1.4 New versions of Smart Configurator support

The following new version is supported.

- Smart Configurator for RX 2.14.0

Added device support. Please refer to the Release Note of Smart Configurator for details.

2.1.5 Improvements of debugger

The following features are improved in debugger.

- Added device support in Peripheral Functional Simulator (RL78/G23)

Support devices are added in Current Consumption measurement feature of the simulator. Please refer to e² studio 2022-07 Release Note for the list of device names.

- Improvement of Fault Status view (RA Family)

Fault Status view is improved as more informative with bit-field descriptions.

- Improvements of IO Registers view (RA Family)

IO Registers view improved as more informative with bit-field description, not only field name and register description, by referring to device files.

- Update of device files (RH850 Family)

Device files are updated for the following device groups in RH850 Family:

RH850/F1KM-S4, RH850/U2-Eva, RH850/U2A16, RH850/U2A8 and RH850/U2A6.

2.1.6 Improvements of builder

The following features are improved in builder.

- Changed interface of file output format for mot/hex files in CC-RL projects

Option configuration dialog interface is changed to the same manner as CC-RX projects, which allows multiple selection of formats instead of alternative selection.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2022-07 will be available from July 20th.)

<https://www.renesas.com/e2studio>

The installer is available in the [Downloads] section in the [Documentation & Downloads] list.

Note 1: Do not overwrite-install the installed e² studio.

Make sure that the folder path of the install destination does not include any multi-byte characters, extended ASCII (half byte character greater than 0x7f) characters or symbol characters other than "_" (underscore).

Note 2: Use this product on a 64-bit Windows OS.

This product does not work on a 32-bit Windows OS.

Note 3: For RA family, RZ/T2M group and Renesas Synergy™, use the following installer that includes the software packages:

RA Family: <https://github.com/renesas/fsp/releases>

RZ/T2M group: <https://github.com/renesas/rzt-fsp/releases>

Renesas Synergy™: <https://www.renesas.com/software-tool/e-studio-renesas-synergy>

Revision History

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

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