Overview

We have updated the e² studio integrated development environment from 2021-04 to 2021-07. Major functional improvements and changes are as follows.

- Support for new devices: RZ/G2L, RZ/G2LC
- Support for new devices: RL78/G23
- RA Family: Support SWO trace function with E2 Emulator
- Improvement to functionality: Enhanced Renesas Coverage view

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

https://www.renesas.com/e2studio

1. Version to Be Updated

- e² studio 2020-04, 2020-07, 2020-10, 2021-01 and 2021-04

   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 [Other] section in the [Documentation & Downloads] list on the e² studio product page. It will be available from Jul 20.

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 2021-07?” in the release note listed above.

2.1.1 Improvements to functionality: Support for new devices

   The following new devices are supported.

   - RZ/G2L and RZ/G2LC

     e² studio 2021-07 supports only Cortex-M33 sub core of RZ/G2L and RZ/G2LC. It supports project generation, build, and debugging.

     For using this functions, Flexible Software Package for RZ/G2L and RZ/G2LC is needed.

     (It will be released in July 2021.)

     e² studio doesn’t support Cortex-A55 main core of RZ/G2L and RZ/G2LC. In the URL below, you can find the information of main core development environment of RZ/G2L and RZ/G2LC.

     https://www.renesas.com/rzg2l

     Use RZ Smart Configurator V1.9.0 or later for main core pin configuration of RZ/G2L and RZ/G2LC.

     https://www.renesas.com/smart-configurator
RL78/G23

e² studio 2021-07 supports new devices of RL78/G23 group. For more information, see chapter ‘2. Support Device’ in release note of e² studio 2021-07. (It will be released in July 2021.)


Note

In device information of RL78/G23, SFR information is defined as largest value of ROM/RAM/PIN in all of RL78/G23 group devices. Therefore, it contains SFR information that is not actually included at selected device by user.

For getting information of SFR that is actually mounted on the RL78/G23 device you chosen, please refer the "RL78 / G23 User's Manual Hardware Edition" then design and debug program for RL78/G23 devices.

2.1.2 New function: Support SWO trace function with E2 Emulator

e² studio 2021-07 supports SWO (Serial Wire Output) trace functions of E2 emulator for RA4 and RA6 group devices. It makes you can use excellent debugging functions of ARM Cortex ITM (Instrumentation Trace Macrocell) with E2 Emulator. For more detail information about SWO, ITM, see URL of ARM in below.


Note

For using SWO trace functions, installation FSP V3.2.0 is needed. (It will be released in August 2021.)

2.1.3 Improvements to functionality: Enhancement of Renesas Coverage view

e² studio 2021-07 has ‘Renesas Coverage’ view that can show analysis information by unit of function name in source codes. It makes easy to see detail information about source code coverage.

![Figure 1 ‘Renesas Coverage’ view](image-url)
3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2021-07 will be available from July 20.)

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 and Renesas Synergy™, use the following installer that includes the software packages:
RA Family https://github.com/renesas/fsp/releases
Renesas Synergy™: https://www.renesas.com/software-tool/e-studio-renesas-synergy

Note 4: Please install e² studio 2021-07 newly by using installer to develop RL78/G23 with e² studio.
**Revision History**

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