

[Upgrade to Version]
e² studio Integrated Development Environment 2025-12

R20TS1177EJ0100
Rev.1.00
Dec. 12, 2025

Outline

We have updated the e² studio integrated development environment from 2025-10 to 2025-12.

Major functional improvements and changes are as follows.

- New eclipse platform support
- Renesas 365 support
- Improvements of Smart Configurator

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

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

1. Products to Be Updated

- e² studio versions from 2020-04 to 2025-10

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

2. Description

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 December 12th.

<https://www.renesas.com/search?keywords=R20UT5740>

2.1 New Features, Improved Functionality

We have improved and changed the following.

For details about the improvements, refer to “What is new in 2025-12?” in the release note listed above.

2.1.1 New eclipse platform support

Updated eclipse platform and the version of CDT (C/C++ Development Tooling).

Please refer to the following documents for details.

e ² studio version	2025-10	2025-12	
eclipse	4.35(2025-03)	4.36(2025-06)	New and Noteworthy
JRE(JustJ)	21.0.6	21.0.7	JustJ JREs
OpenJFX	21.0.2	21.0.2	OpenJFX
CDT	12.0.0	12.1.0	CDT New & Noteworthy

2.1.2 Renesas 365 support

- The e² studio connects to Altium 365 cloud and provides the following functions (collectively called Renesas 365). Support of this feature starts with RA device with FSP. Please refer to the e² studio Release Notes for more information on the features.
 - ✧ Registering e² studio project to Renesas 365
 - ✧ Importing Renesas 365 generated projects into e² studio workspace

2.1.3 Improvements of Smart Configurator

- The following new versions of Smart Configurator are supported. Smart Configurator version is displayed in Overview tab of Configurator view. Refer to Release note of the versions for details.
 - ✧ Smart Configurator for RX V2.28.0
Added device support. Refer to Release Note of the Smart Configurator.
 - ✧ Smart Configurator for RL78 V1.15.0
Improved codes of register operation. Optimized warning condition in clock configuration.

2.1.4 Improvements of Debugger Features

The following improvements have been implemented.

- RL78 peripheral functions simulator added features to simulating such as flash self programming and boot swapping. Refer to "e2 studio User Guide"->"General"->"Renesas RL78 Simulator" and Simulator Release Note of your device in e² studio Help for the usage.

3. Updating Your Product

Download the installer from the e² studio product page (the following URL) and install the program. (2025-12 will be available from Dec. 12th.)

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

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

Note 1: You cannot use "Upgrade" installation for e² studio 2024-07 and older (older than Java 17) versions. Newer e² studio versions should be installed to new location instead of using "Upgrade" installation.

The destination folder path should not include any multi-byte characters, extended ASCII (half byte character greater than 0x7f) characters or symbol characters other than "_" (underscore).

Note 2: Windows version of this product supports 64-bit Windows. This product does not work on 32-bit Windows.

Note 3: For FSP/SSP supported device families and groups (RA, RZ/T2x, RZ/N2x, RZ/A2x, RZ/A3x, RZ/G2x, RZ/G3x, RZ/V2x and Renesas Synergy™), installers are available which include the software packages.

Please refer to the following page for software packages and the installers :

Software - Middleware, Drivers, OS:

<https://www.renesas.com/design-support/software>

4. About RL78 open source compiler

GCC for Renesas RL78 toolchain development has already been finished. Please use LLVM for Renesas RL78 toolchain when developing a new product. The GCC for Renesas RL78 project creation feature will be deprecated in future version of the e² studio. Note that GCC for Renesas RL78 projects can be imported and built even after the new project creation feature is discontinued.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Dec. 12.25	-	First edition issued

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