

Integrated Development Environment e² studio

How to install features additionally in e² studio

Introduction

e² studio, the integrated development environment for Renesas microcontrollers, is installed by downloading the installer from the Renesas website and running it. e² studio has functions to add features, add toolchains, and perform updates without having to run the installer again.

This document describes the operating procedure to add features, add toolchains, and perform updates on e^2 studio.

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1. Overview

1.1 Purpose

e² studio is an integrated development environment for Renesas microcontrollers based on the open source "Eclipse".

To install e^2 studio for the first time, download the installer from the Renesas website and run it. e^2 studio installer can not only install a new e^2 studio, but also additionally install device families, functions, toolchains, etc. to an already installed e^2 studio. Also, if the installer installs a newer version than the installed e^2 studio, you can update the installed e^2 studio.

e² studio has functions to add features, add toolchains, and perform updates without having to run the installer again.

This document describes the operating procedure to add features, add toolchains, and perform updates on e^2 studio.

1.2 Environment

Renesas have confirmed the operating procedure explained in this document in the following environment.

[OS]

OS Windows 10 x64

[Tool]

• e² studio 2023-07, 2023-10



2. Install e² studio newly

To install e² studio for the first time, download the installer from the Renesas website and run it.

https://www.renesas.com/e2studio

Starting with e² studio 2023-07, e² studio installer supports 3 installation types. User must select one installation type during installation. Each installation type has different features that you can install. The outline of 3 installation types is listed below.

民 Renesas e² studio 2023-07 Setup					
Renesas e ² studio 2023-07 Setup			REN	ΕSΛS	
Install Type					
Please select the e ² studio installation type. <u>Click here</u> for help sel	lecting a type and	to see what features	are included.		
Select Install Type:					
Lite Install (Recommended) This installs e ² studio in Lite Mode. This mode offers a simplified experience focused o	n simple code edit	ing & debugging w	ith only important fo	eatures	
Standard Install This installs e ² studio in Advanced Mode. This mode offers all extended debugging functionality and other advanced features					
Custom Install Custom installation of e ² studio This mode is allows you to select which features are	e installed				
<u>v202307141552</u> User:	< Back	Next >	Install	Cancel	

Figure 1

- Lite Install (Recommended) This installation type offers a simplified experience focused on simple code editing and debugging with only important features.
- Standard Install This installation type offers all extended debugging functionality and other advanced features.
- Custom Install
 This installation type allows you to select which features installed.

 Its behavior is the same as the previous installer.

For detailed installation instructions, please see the FAQ page below.

Installation of e² studio | Renesas Customer Hub



3. Update e² studio

There are 2 ways to update e² studio:

Run the installer

You can update e² studio by running the installer that installs a newer version than the installed e2 studio. Please select "Upgrade" in the installer. This way also allows you to add device families.

Run the update function on e² studio
 You can update e² studio by selecting the menu [Check for Updates] on e² studio. It is not possible to add device families, features, or toolchains at the same time as the updating. To add device families, features, toolchain, etc. on e² studio, see <u>4. Install various features additionally</u> and follow the operating procedure.

This chapter describes the operating procedure for the update function on e² studio.

- 1) Start e² studio.
- When e² studio starts, select the menu [Help] > [Check for Updates].
 A process will run to check for available updates.
 * The process of checking for available updates may take some time.
- 3) When the process of checking for available updates is completed and an available update is found, the [Available Updates] dialog (wizard type) will appear. Check the features you want to update, and then click [Next >] button.

S Available Updates		—	
Available Updates Check the updates that you wish to install.			
Check the updates that you wish to histan.			
Name Name Babel Language Pack for eclipse in Japanese (89.83%) Babel Language Pack for mylyn in Japanese (85.22%) Babel Language Pack for tools.cdt in Japanese (77.87%) Beclipse CDT Linker Script Editor and DSL GCC for Renesas RX Build Support GCC for Renesas RX Support Files Integration for Eclipse Integration for Eclipse Select All Details	Version 4.26.0.v20230220105658 4.26.0.v20230220105658 4.26.0.v20230220105658 1.0.110.v20230830-0748 23.10.0.v20230713-1201 23.10.0.v20230927-1142 6.70.202309050840-r 1.1.0.202306050916	Id org.eclipse.babel.nls_eclipse_ja.feature.group org.eclipse.babel.nls_mylyn_ja.feature.group org.eclipse.babel.nls_tools.cdt_ja.feature.group org.eclipse.cdtlinkerscript.feature.feature.group com.renesas.e2studio.device.rx.build.gcc.feature com.renesas.ide.supportfiles.rx.gcc.feature.feature org.eclipse.egit.feature.group	o e.feature.group
(?)	<	Back Next > Finish	Cancel

Figure 2

* If no available updates are found, the [Information] message will be displayed, so click the [OK] button. The update will be canceled.



- 4) The [Update Details] page is displayed. Click the [Next >] button.
- 5) The [Review Licenses] page is displayed. Check the [I accept the terms of the license agreements] and click the [Finish] button.



😪 Available Updates	– – ×
Review Licenses Licenses must be reviewed and accepted before the software can be installed.	License text:
Eclipse Foundation Software User Agreement Eclipse Foundation Software User Agreement IAR SOFTWARE LICENSE AGREEMENT License Terms and Conditions for RENESAS e2 studio License Terms and Conditions for RENESAS e2 studio	Eclipse Toundation Software User Agreement November 22, 2017 Usage Of Content THE ECLIPSE FOUNDATION MAKES AVAILABLE SOFTWARE, DOCUMENTATION, INFORMATION © I accept the terms of the license agreements O I do not accept the terms of the license agreements
?	< Back Next > Finish Cancel



- 6) The update process will start.* The update process may take some time.
- 7) During the update process, the [Trust] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.

🕑 Trust							
Do you trust these signers? Δ The displayed originator names are not necessarily a reliable certification of origin. For PGP keys, verification is typically achieved by querying the key's fingerprint against a trusted key server.							
Туре	Id/Fingerprint	Name		Validity Dates			
PGP	dacc75c2a9363886bbae9675fe			✓ Valid, expires 202	28-05-01T1		
PGP	ae20288fb9ac6b50687499ff5c2			✓ Valid, expires 202	28-07-01T0		
		1					
🗹 Remembe	r selected signers 🗌 Always trust a	all content		Select All	Deselect All		
dacc75c2	a9363886bbae9675fe1b0cffe92eb0	lec					
🔍 Details	Export						
Classifier	ld		Version				
osgi.bun	org.apache.commons.commons-	io	2.13.0				
osgi.bun	osgi.bun com.sun.jna		5.13.0.v20230812-1000				
osgi.bun	org.yaml.snakeyaml		2.2.0				
?	Trust Selected Cancel						

8) During the update process, the [Software Updates] message will be displayed. Click the [Restart Now] button.

	×
Restart Now	No
	Restart Now

Figure 6

9) e² studio will restart.

Once e² studio has restarted, e² studio update is complete.



4. Install various features additionally

When installing various features additionally to an already installed e² studio, the operating procedure that need to be executed will differ depending on the features you want to add. This chapter describes the installation operating procedure for each feature you want to add. Make sure to check the reference for the feature you want to add in the table below and perform the correct operating procedure.

Features	Reference
Toolchains	4.1 Install toolchains additionally
QE (Quick and Effective tool solution)	4.2 Install QE (Quick and Effective tool solution) additionally
Plugins on Eclipse Marketplace	4.3 Install plugins additionally on Eclipse Marketplace
New software	4.4 Install new software additionally

* If you encounter any problems when performing these procedures, please check the FAQ pages listed in <u>5. Reference information</u>.

4.1 Install toolchains additionally

Toolchains are installed by downloading the installer for each toolchain from a toolchain specific website and running it.

There is a function on e^2 studio to install toolchains additionally, that function allows you to install a toolchain without having to go through the trouble of searching and downloading a toolchain installer.

This chapter describes the operating procedure for that function to install toolchains additionally on e^2 studio.

- 1) Start e² studio.
- 2) When e² studio starts, select the menu [Help] > [Add Renesas Toolchains].
- 3) The [Renesas Toolchain Management] panel on the [Preferences] dialog is appeared. Click the [Download...] button.



Preferences		-	
type filter text	Renesas Toolchain Managem	lent	$\langle \neg \neg \neg \neg \neg$
> General	Scan for installed toolchains or	i startup	
> C/C++	Toolchain Type	Installation Path	
> Help	✓ ✓ Renesas CC-RX	instant don't dan	
> Install/Update	√ v3.04.00	C:¥Program Files (x86)¥Renesas¥RX¥3 4 0¥	
Java	✓ v3.03.00	C:¥Program Files (x86)¥Renesas¥RX¥3_3_0¥	
Language Servers	√ v3.02.00	C:¥Program Files (x86)¥Renesas¥RX¥3 2 0¥	
Library Hover	▼ v3.01.00	C:¥Program Files (x86)¥Renesas¥RX¥3 1 0¥	
Oomph	✓ v3.00.00	C:¥Program Files (x86)¥Renesas¥RX¥3 0 0¥	
Remote Development	√ v2.08.01	C:¥Program Files (x86)¥Renesas¥RX¥2 8 1¥	
Renesas	▼ v2.08.00	C:¥Program Files (x86)¥Renesas¥RX¥2_8_0¥	
Breakpoints	▼ v2.07.00	C:¥Program Files (x86)¥Renesas¥RX¥2 7 0¥	
Device add-ins Support	v2.06.00	C:¥Program Files (x86)¥Renesas¥RX¥2 6 0¥	
Launch Settings	✓ v2.05.00	C:¥Program Files (x86)¥Renesas¥RX¥2_5_0¥	
Logging	v2.04.01	C:¥Program Files (x86)¥Renesas¥RX¥2_4_1¥	
Module Download	▼ v2.03.00	C:¥Program Files (x86)¥Renesas¥RX¥2 3 0¥	
My Renesas	v2.02.00	C:¥Program Files (x86)¥Renesas¥RX¥2_2 0¥	
Renesas QE	v2.02.00	C:¥Program Files (x86)¥Renesas¥RX¥2_1_1¥	
Renesas Toolchain Mana	✓ v2.01.01	C:¥Program Files (x86)¥Renesas¥RX¥2_1_1¥	
Smart Browser	✓ v2.01.00		
> Smart Configurator		C:¥Program Files (x86)¥Renesas¥RX¥2_0_1¥	
> Smart Manual	✓ v2.00.00	C:¥Program Files (x86)¥Renesas¥Tools¥Renesas¥RX¥2_0_0¥	
Support Folders	✓ v1.02.01	C:¥Program Files (x86)¥Renesas¥Hew¥Tools¥Renesas¥RX¥1_2_1¥	
Tracealyzer	✓ v1.01.00	C:¥Program Files (x86)¥Renesas¥Hew¥Tools¥Renesas¥RX¥1_1_0¥	
TraceX	✓ v1.00.00	C:¥Program Files (x86)¥Renesas¥Hew¥Tools¥Renesas¥RX¥1_0_0¥	
Run/Debug	✓ ✓ GCC for Renesas RX		
Scripting	8.3.0.202305	C:¥Program Files (x86)¥GCC for Renesas RX 8.3.0.202305-GNURX-ELF¥r.	
Terminal	8.3.0.202204	C:¥Program Files (x86)¥GCC for Renesas RX 8.3.0.202204-GNURX-ELF¥r	
TextMate	8.3.0.202202	C:¥Program Files (x86)¥GCC for Renesas RX 8.3.0.202202-GNURX-ELF¥r	
Version Control (Team)	8.3.0.202104	C:¥Program Files (x86)¥GCC for Renesas RX 8.3.0.202104-GNURX-ELF¥r	
	8.3.0.202102	C:¥Program Files (x86)¥GCC for Renesas RX 8.3.0.202102-GNURX-ELF¥r	x-elf¥rx-elf¥
	KPIT GNURX-ELF Toolchain		
>	Downlo	ad Scan Add Remove	
? 📐 🖌 🔘		Apply and Close	Cancel

Figure 7

4) The [Install] dialog is appeared. Check the toolchain name you want to install additionally, and then click the [Finish] button.

* Check the [Run toolchain scan after installing toolchains (some toolchains may need to be added manually)] checkbox to run a toolchain scan after installing toolchains and make the installed toolchains available to your project. Checking this checkbox is our recommendation.

e Install		– 🗆 X
Install new software		
Select software to install then click Finish to start d	lownload	& installation
type filter text		
Name	Version	Description
✓ ✓ Renesas CC-RX Compilers		Renesas Compilers for RX devices
Renesas CC-RX v3.05.00	v3.05.00	Renesas C/C++ Compiler Package for RX Family v3.05.0
> Renesas Utilities		Utilities
> GCC for Renesas RX (Registration Required)		GCC for Renesas RX devices
<		>
Run toolchain scan after installing toolchains (so	me toolcl	nains may need to be added manually)
		Finish Cancel

- 5) The toolchain installer will be automatically downloaded and run. Follow the installer wizard instructions to proceed with the toolchain installation.
- 6) When the installation is complete, the [Renesas Toolchain Management] panel on the [Preferences] dialog is displayed.



- 7) (If you checked the [Run toolchain scan after installing toolchains (some toolchains may need to be added manually)] checkbox in step 4, this step is not necessary, and you can proceed to the next step) Click the [Scan] button. The installed toolchains are scanned and the toolchain you installed is added to the toolchains list.
- 8) Click the [Apply and Close] button.

The toolchain installation is complete.

4.2 Install QE (Quick and Effective tool solution) additionally

Installing QE tools for assisting in application development expands the functionality of the e² studio and easily starts applications. A QE provides a GUI that will guide you in setting up the various functions you require and incorporates knowhow for the development of the given functions.

There are 2 ways to install QE additionally: by running QE installer and by running QE installation function on e² studio.

This chapter describes the operating procedure for QE installation function on e² studio.

- 1) Start e² studio.
- When e² studio starts, click the menu [Renesas Views] > [Renesas Software Install].
- The [Renesas Software Installer] dialog is appeared. Select "Renesas QE", and then click [Next >] button.

Renesas	🗃 Renesas Software Installer 🛛 👘					
	Renesas Software Installer Choose software to install					
Renesas	Renesas QE	Tools to assist the development of embe	dded systems applicat	tions		
?		< Back Next >	Finish Ca	ncel		



4) The [Install Extensions] page is displayed. Check the checkbox of QE you want to install, then click the [Finish] button.

Renesas Software Installer	
Install Extensions Select extensions to install. Press Finish to proceed with installation. Press the information button to see a detailed overview and a link to more	1
Find:	^
Tools to assist in development work involving Bluetooth® Low Energy. QE for Capacitive Touch (v3.3.0)	
Tools to assist in the configuration, tuning, and monitoring of touch interfaces. (supports all touch MCUs: RX, RA, RL78, and Renesas Synergy)	
QE for Display[RX,RA] (v3.1.1)	~

Figure 10



5) The [Install] dialog is appeared. Click the [Next >] button.

😢 Install		—		×
Install Check the items that you wish to install.				
Name Name Image: Constraint of the state of the st	ld com.renesas.apltool.blera.feature.feature com.renesas.apltool.blera.utility.feature.fe)	
Select All Deselect All Details				
				* -
?	< Back Next > Finish		Cance	el l

Figure 11

- 6) The [Update Details] page is displayed. Click the [Next >] button.
- 7) The [Review Licenses] page is displayed. Check the [I accept the terms of the license agreements] and click the [Finish] button.

😢 Install	– – X
Review Licenses Licenses must be reviewed and accepted before the software can be installed.	
Licenses:	License text:
License for Renesas QE series	License for Renesas QE series License Terms and Conditions for Renesas QE series By clicking "I accept" then on behalf of the Client (defined below) you legally bind the Client to the License Terms and Conditions set I accept the terms of the license agreement I do not accept the terms of the license agreement
?	< Back Next > Finish Cancel

Figure 12

- 8) The install process will start. t
 * The install process may take some time.
- 9) During the update process, the [Trust Authorities] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.



Trust Authorities				×
Do you trust content originating from the following auth configuration and may potentially be used for malicious	orities? Installing content involves performing actions that alte purposes.	r the ins	stallation's	5
Authority / Update Site		Units	Secured	
> https://tool-support.renesas.com		10	~	
Remember selected authorities Always trust all au	thorities Select All Deselect All Expand All	C	ollapse A	11
 sni.cloudflaressl.com; Cloudflare Inc. 				
Cloudflare Inc ECC CA-3; Cloudflare Inc.				
Details Export				
Id	Version			
com.renesas.apltool.blera	1.6.0.v20221124-0435			
com.renesas.apltool.blera.feature.feature.group	1.6.0.v20221129-1114			
com.renesas.apltool.blera.feature.feature.jar	1.6.0.v20221129-1114			
com.renesas.apltool.blera.help	1.6.0.v20221129-1114			
com.renesas.apltool.blera.help.nl_ja	1.6.0.v20221129-1114			
com.renesas.apltool.blera.nl_ja	1.6.0.v20221129-1114			
	1.6.0.v20221212-0748			
	1.6.0.v20221212-0748			
	1.6.0.v20221212-0748			
com.renesas.apltool.qeconfigurator	1.0.0.v20210820-1001			
Details				
?	Trust Selected		Cancel	

10) During the update process, the [Trust Artifacts] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.

💽 Trust Artifa	🖥 Trust Artifacts — 🗆 🗆								
Do you trust th	Do you trust these signers? $ \Delta$ The displayed originator names are not necessarily a reliable certification of origin.								
Туре	ld/Fingerprir	nt	Name			Validity Dates			
✓ x509	1478131948		REE-SSD Eclipse; Broa	ad-based So	olution Business	× Expired			
	Remember selected signers Always trust all content Select All Deselect All REE-SSD Eclipse; Broad-based Solution Business Unit; Renesas Electronics Europe Ltd. Select All Select All						All		
Details Ex	oprt								
Classifier		ld			Version				
osgi.bundle		com.renesas.apltoo	l.blera		1.6.0.v20221124-0435				
org.eclipse.u	pdate.feat	com.renesas.apltoo	l.blera.feature		1.6.0.v20221129-1114				
osgi.bundle		com.renesas.apltoo	l.blera.help		1.6.0.v20221129-11	14			
osgi.bundle		com.renesas.apltoo	l.blera.help.nl_ja		1.6.0.v20221129-11	14			
osgi.bundle		com.renesas.apltoo	l.blera.nl_ja		1.6.0.v20221129-11	14			
osgi.bundle		com.renesas.apltoo	l.blera.utility		1.6.0.v20221212-07	748			
org.eclipse.u	pdate.feat	com.renesas.apltoo	l.blera.utility.feature		1.6.0.v20221212-07	748			
osgi.bundle		com.renesas.apltoo	l.qeconfigurator		1.0.0.v20210820-10	001			
?						Trust Select	ted	Cancel	

Figure 14

11) During the update process, the [Software Updates] message will be displayed. Click the [Restart Now] button.

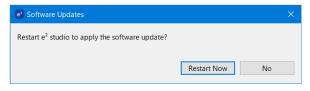


Figure 15



12) e2 studio will restart.

Once e² studio has restarted, QE installation is complete.

4.3 Install plugins additionally on Eclipse Marketplace

The Eclipse Marketplace publishes a large number of plugins available for Eclipse. Users can freely use plugins through the Eclipse Marketplace. Plugins available for Eclipse are basically available for e² studio as well. However, Renesas do not guarantee its operation, so please use it at your own responsibility.

There are 2 ways to install plugins in e² studio through the Eclipse Marketplace:

- Run the Eclipse Marketplace function on e² studio
- Drag and drop plugin on the Eclipse Marketplace website (<u>New and Updated Solutions | Eclipse</u> <u>Plugins, Bundles and Products - Eclipse Marketplace | Eclipse Foundation</u>) into e² studio

This chapter describes the operating procedure for the Eclipse Marketplace function on e² studio.

- 1) Start e² studio.
- 2) When e² studio starts, select the menu [Help] > [Eclipse Marketplace...].
- 3) The [Eclipse marketplace] window is appeared. Find the plugin you want to install using the search function on the window.
- 4) When you find a plugin you want to install, click the [Install] button for that plugin item.

Eclipse Mark	ketplace					—]	×
	etplace is to install. Press Install Now to proceed with installar re info" link to learn more about a solution.	tion.					٤		3
Search Recent	Popular Favorites Installed 💡 Research at the Ec	ipse							
Find: 🔎 AgileF	Review	×	All Market	s	\sim	All Categories		\sim	Go
Accile Review Or - Cha Cal Revor	AgileReview 0.9.2 AgileReview provides you with an easy possibility to meaning for quality assurance, but <u>more info</u> by <u>AgileReview Team</u> , Apache 2.0 <u>PHP code review java xml commit comments</u> Installs: 12.4K (33 last month)	o do	code review	vs in your favo	rite ID	DE. Code reviews a	are a po	werful Insta	
Marketpla	ices								
6	A								
?			< Back	Install Now	>	Finish	С	ancel	

- 5) Install process will start. Please follow the on-screen instructions to agree to the license. * The install process may take some time.
- 6) During the update process, the [Trust Authorities] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.



Trust Authorities							
Do you trust content originating from the following configuration and may potentially be used for malic		stalling content inv	olves performing a	actions that alte	r the in	stallatio	ı's
Authority / Update Site					Units	Secureo	ł
> https://update.agilereview.org					3	 Image: A second s	
Remember selected authorities Always trust a	all authorities	Select All	Deselect All	Expand All	(Collapse	All
✓ update.agilereview.org							
> update.agilereview.org							
Details Export							
ld	Version						
de.tukl.cs.softech.agilereview	0.9.2						
de.tukl.cs.softech.agilereview.feature.feature.gr							
de.tukl.cs.softech.agilereview.feature.feature.jar	0.9.2						
Details							
?				Trust Selected	i	Cancel	

Figure 17

7) During the update process, the [Trust Artifacts] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.

😢 Trust Artifacts — 🗆							×	
▲ Do you trust uns	${}^{\!$							
Type Id/Fingerprint Name			Name		Validity Dates			
Unsigned	n/a		Unknown		n/a			
Always trust all	Always trust all content Select All Des						All	
Classifier		ld		Version				
osgi.bundle		de.tukl.cs.softech.agil	ereview	0.9.2				
org.eclipse.update.feat de.tukl.cs.softech.agiler		ereview.feature	0.9.2					
?					Trust Selected	Cance	I	

Figure 18

8) During the update process, the [Software Updates] message will be displayed. Click the [Restart Now] button.

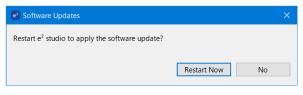


Figure 19

9) e² studio will restart.

Once e² studio has restarted, plugin installation is complete.

4.4 Install new software additionally

e² studio has a function to install features additionally. You can run this function to install features additionally that you did not select during installation. You can also install software additionally whose location are known.

This function requires you to select the software you want to install module by module. If the selected module has dependencies with other modules, you will need to install related modules additional or update to adjust



versions between modules. Using this function requires advanced knowledge of the software you are installing. Therefore, when installing features additionally instead of running this function unless there is a special reason.

- 1) Start e² studio.
- 2) When e² studio starts, select the menu [Help] > [Install New Software...].
- 3) The [Install] dialog is appeared. Please do one of the following:
 - Install features with known location.
 Please enter the location\ in the [Work with:] textbox.
 - Install features additionally provided by e² studio.
 Please select "e² studio Update Site" in the [Work with:] drop-down list.
- 4) The modules will appear in the list. Select the module you want to install, and then click the [Next >] button.

💽 Install		—	
Available Software Check the items that you wish to install.			
Work with: ¹⁰ e2 studio Update Site - http://tool-support.renesas.com/e2studio/e	•2studio9 ~	Add	Manage
type filter text			Select All
Name > 000 GCC Build Common Components > 1000 Renesas e2 studio Tools > 1000 Renesas RA > 1000 Renesas RH850 Family Support > 1000 Renesas RL78 Family Support > 1000 Renesas RX Family Support	Version	^	Deselect All
8 items selected			
Details			0
 Show only the latest versions of available software Group items by category Show only software applicable to target environment Contact all update sites during install to find required software 	✓ Hide items that are already installed What is <u>already installed</u> ?		
?	< Back Next >	Finish	Cancel

Figure 20

5) If dependencies between modules need to be adjusted, the Install Repair Page page will be displayed. Select one of the alternative solutions and click the [Next] button. If no dependency coordination between modules is required, this page will not be displayed.



linstall		— 🗖
stall Remediation Page		
The installation cannot be completed as requested.		
hoose one of the following alternate solutions:		
Keep my installation the same and modify the items being installed to	b be compatible	
Update my installation to be compatible with the items being installe	d	
) Show original error and build my own solution:		
Solution Details		
Name	Version	ld ·
🗸 🍫 Will be upgraded/downgraded		
Babel Language Pack for eclipse in Japanese (89.83%)	4.26.0.v20230220105658	org.eclipse.babel.nls_eclipse_ja.feat
T Babel Language Pack for mylyn in Japanese (85.22%)	4.26.0.v20230220105658	org.eclipse.babel.nls_mylyn_ja.feat
Babel Language Pack for tools.cdt in Japanese (77.87%)	4.26.0.v20230220105658	org.eclipse.babel.nls_tools.cdt_ja.fe
Eclipse CDT Linker Script Editor and DSL	1.0.110.v20230830-0748	org.eclipse.cdt.linkerscript.feature.f
GCC for Renesas RX Build Support	23.10.0.v20230713-1201	com.renesas.e2studio.device.rx.buil
👚 GCC for Renesas RX Support Files	23.10.0.v20230927-1142	com.renesas.ide.supportfiles.rx.gcc
fit integration for Eclipse	6.7.0.202309050840-r	org.eclipse.egit.feature.group
👚 IAR Plugin Manager	1.1.0.202306050916	com.iar.dmgr.feature.feature.group
👚 JustJ Adoptium OpenJDK Hotspot JRE Complete	17.0.8.v20230801-1951	org.eclipse.justj.openjdk.hotspot.jre
👚 Renesas Build Support Files	9.3.0.v20230915-1033	com.renesas.ide.supportfiles.comm
🕆 Renesas CCRX Build Support	23.10.0.v20230921-1005	com.renesas.e2studio.device.rx.buil
Renesas CCRX CS+ Import/Export	23.10.0.v20230922-0451	com.renesas.e2studio.device.rx.buil

- 6) The [Update Details] page is displayed. Click the [Next >] button.
- 7) The [Review Licenses] page is displayed. Check the [I accept the terms of the license agreements] and click the [Finish] button.

💽 Install	– D X
Review Licenses Licenses must be reviewed and accepted before the software can be installed.	
Licenses:	License text: Eclipse Foundation Software User Agreement November 22, 2017 Usage Of Content THE ECLIPSE FOUNDATION MAKES AVAILABLE SOFTWARE, DOCUMENTATION, INFORMATION INFOR
?	< Back Next > Finish Cancel

Figure 22

- 8) The installation process will start.
 * The installation process may take some time.
- 9) During the update process, the [Trust] dialog will be displayed. Click the [Select All] button, then click the [Trust Selected] button.



🕑 Trust						
	these signers? $ riangleq$ The displayed orig hieved by querying the key's fingerp			on of origin. For PGI	v keys, verifica	ation
Туре	ld/Fingerprint	Name		Validity Dates		
✓ x509	1478131948	REE-SSD Eclipse; Broad-ba	sed Solution Business	× Expired		
PGP	dacc75c2a9363886bbae9675fe			✓ Valid, expires 20	28-05-01T	
PGP	ae20288fb9ac6b50687499ff5c2			✓ Valid, expires 20	28-07-01T	
REE-SSD	r selected signers Always trust a		Europe Ltd.	Select All	Deselect .	AII
💊 Details						
Classifier	Id		/ersion			- 1
osgi.bun	com.renesas.smc.bsp.rl78.ccrl.v10		1.0.1.v20210315-0928			
osgi.bun	com.renesas.smc.bsp.rl78.ccrl.v11		.0.0.v20210623-0358			
osgi.bun	com.renesas.smc.bsp.rl78.ccrl.v11		1.0.0.v20211129-0703			
osgi.bun	com.renesas.smc.bsp.rl78.ccrl.v12 com.renesas.smc.bsp.rl78.ccrl.v13		.0.0.v20220308-0201 .0.0.v20220902-0141			
osgi.bun	com.renesas.smc.bsp.ri78.ccrl.v14		.0.0.v20221201-1013			
osgi.bun	com.sun.ina		5.13.0.v20230812-1000			
osgi.bun	org.apache.commons.commons-i		2.13.0			
osgi.bun	org.yaml.snakeyaml 2.2.0					
?				Trust Selected	Cancel	

10) During the update process, the [Software Updates] message will be displayed. Click the [Restart Now] button.

Software Updates		×
Restart e ² studio to apply the software update?		
	Restart Now	No

Figure 24

11) e² studio will restart.

Once e² studio has restarted, the installation is complete.



5. Reference information

The following FAQ page is related to the information explained in this document. Please take a look at them as well.

- Installation of e² studio
 Installation of e² studio | Renesas Customer Hub
- How to Install a Generic Eclipse Plug-in on e² studio
 <u>How to Install a Generic Eclipse Plug-in on e² studio | Renesas Customer Hub</u>
- Adding features later in installed e² studio
 <u>Adding features later in installed e² studio | Renesas Customer Hub</u>
- How can I install and update compilers for e² studio
 How can I install and update compilers for e² studio? | Renesas Customer Hub
- e² studio FAQs
 <u>e² studio FAQs | Renesas Customer Hub</u>



Revision History

		Description	
Rev.	Date	Page	Summary
1.00	Nov.16.23	All	New create



General Precautions in the Handling of Microprocessing Unit and Microcontroller Unit Products

The following usage notes are applicable to all Microprocessing unit and Microcontroller unit products from Renesas. For detailed usage notes on the products covered by this document, refer to the relevant sections of the document as well as any technical updates that have been issued for the products.

1. Precaution against Electrostatic Discharge (ESD)

A strong electrical field, when exposed to a CMOS device, can cause destruction of the gate oxide and ultimately degrade the device operation. Steps must be taken to stop the generation of static electricity as much as possible, and quickly dissipate it when it occurs. Environmental control must be adequate. When it is dry, a humidifier should be used. This is recommended to avoid using insulators that can easily build up static electricity. Semiconductor devices must be stored and transported in an anti-static container, static shielding bag or conductive material. All test and measurement tools including work benches and floors must be grounded. The operator must also be grounded using a wrist strap. Semiconductor devices must not be touched with bare hands. Similar precautions must be taken for printed circuit boards with mounted semiconductor devices.

2. Processing at power-on

The state of the product is undefined at the time when power is supplied. The states of internal circuits in the LSI are indeterminate and the states of register settings and pins are undefined at the time when power is supplied. In a finished product where the reset signal is applied to the external reset pin, the states of pins are not guaranteed from the time when power is supplied until the reset process is completed. In a similar way, the states of pins in a product that is reset by an on-chip power-on reset function are not guaranteed from the time when power is supplied until the power is supplied until the power is supplied until the power reaches the level at which resetting is specified.

3. Input of signal during power-off state

Do not input signals or an I/O pull-up power supply while the device is powered off. The current injection that results from input of such a signal or I/O pull-up power supply may cause malfunction and the abnormal current that passes in the device at this time may cause degradation of internal elements. Follow the guideline for input signal during power-off state as described in your product documentation.

4. Handling of unused pins

Handle unused pins in accordance with the directions given under handling of unused pins in the manual. The input pins of CMOS products are generally in the high-impedance state. In operation with an unused pin in the open-circuit state, extra electromagnetic noise is induced in the vicinity of the LSI, an associated shoot-through current flows internally, and malfunctions occur due to the false recognition of the pin state as an input signal become possible.

5. Clock signals

After applying a reset, only release the reset line after the operating clock signal becomes stable. When switching the clock signal during program execution, wait until the target clock signal is stabilized. When the clock signal is generated with an external resonator or from an external oscillator during a reset, ensure that the reset line is only released after full stabilization of the clock signal. Additionally, when switching to a clock signal produced with an external resonator or by an external oscillator while program execution is in progress, wait until the target clock signal is stable.

6. Voltage application waveform at input pin

Waveform distortion due to input noise or a reflected wave may cause malfunction. If the input of the CMOS device stays in the area between V_{IL} (Max.) and V_{IH} (Min.) due to noise, for example, the device may malfunction. Take care to prevent chattering noise from entering the device when the input level is fixed, and also in the transition period when the input level passes through the area between V_{IL} (Max.) and V_{IH} (Min.).

7. Prohibition of access to reserved addresses

Access to reserved addresses is prohibited. The reserved addresses are provided for possible future expansion of functions. Do not access these addresses as the correct operation of the LSI is not guaranteed.

8. Differences between products

Before changing from one product to another, for example to a product with a different part number, confirm that the change will not lead to problems. The characteristics of a microprocessing unit or microcontroller unit products in the same group but having a different part number might differ in terms of internal memory capacity, layout pattern, and other factors, which can affect the ranges of electrical characteristics, such as characteristic values, operating margins, immunity to noise, and amount of radiated noise. When changing to a product with a different part number, implement a systemevaluation test for the given product.

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