

Getting started for NS-RX231

e²studio Installation

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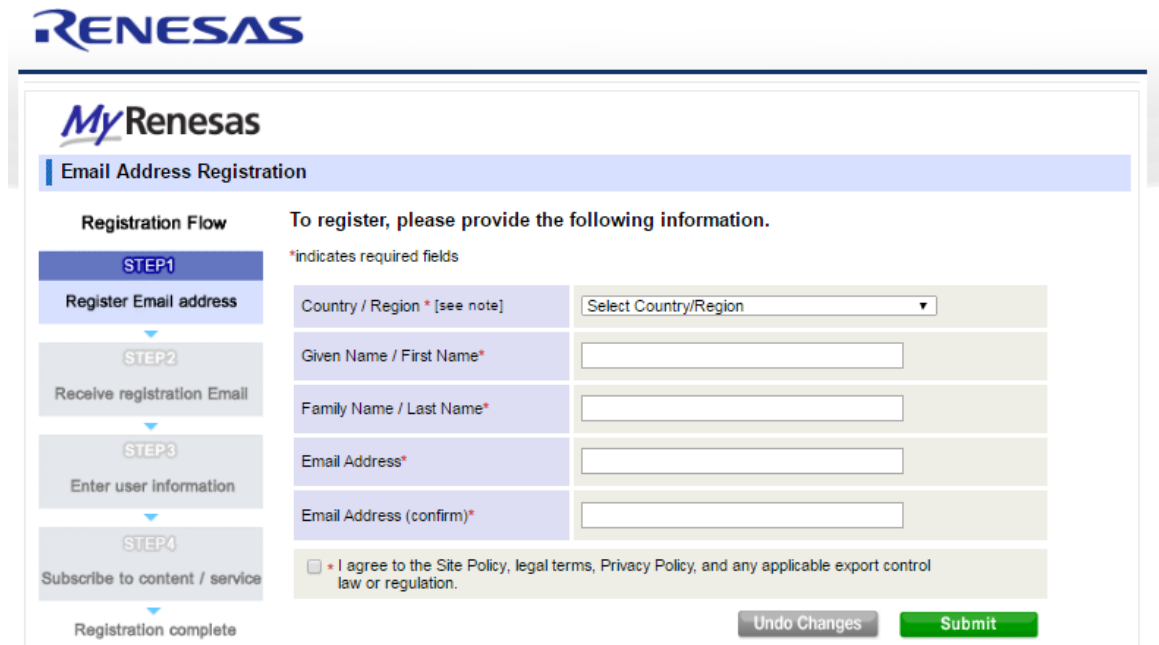
※This document covers the installation of e²studio and workbench6 on Windows baseline.

※If you want to develop with CS+, please refer to other documents.

1 Homepage Sign Up

<https://update.renesas.com/gur/ssoRegisterUser.do>

Go to the above link and go to the member registration window.



MyRenesas
Email Address Registration

Registration Flow

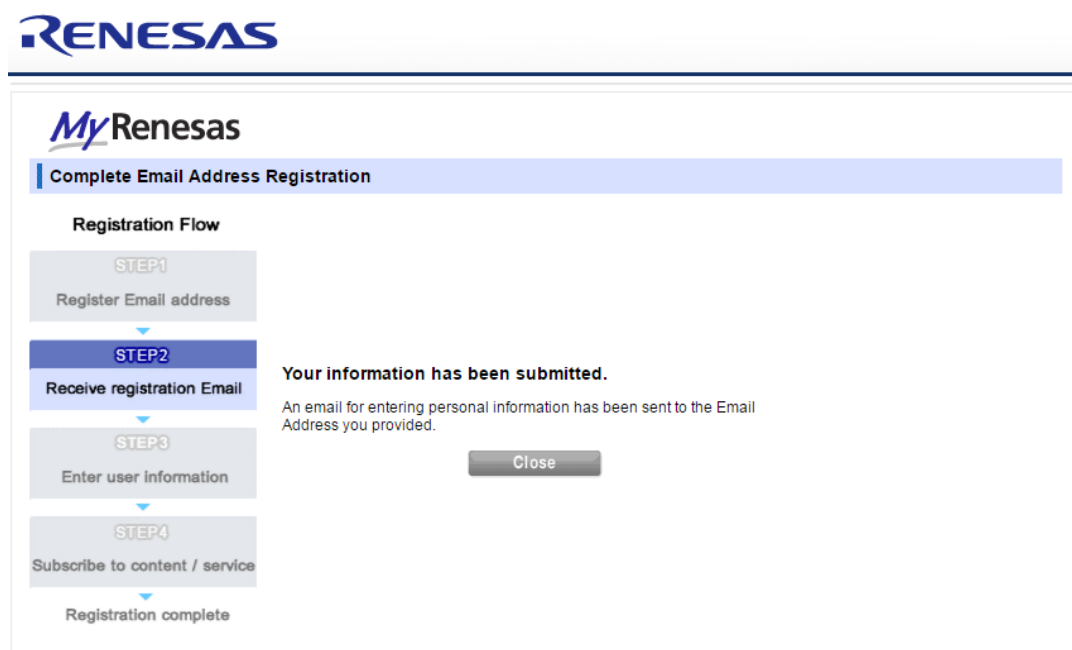
- STEP1**
Register Email address
- STEP2
Receive registration Email
- STEP3
Enter user information
- STEP4
Subscribe to content / service
- Registration complete

To register, please provide the following information.
*indicates required fields

Country / Region * [see note]	Select Country/Region ▼
Given Name / First Name*	
Family Name / Last Name*	
Email Address*	
Email Address (confirm)*	

☐ * I agree to the Site Policy, legal terms, Privacy Policy, and any applicable export control law or regulation.

Enter the required entries according to the description on the left of input box and click the submit button to proceed.



MyRenesas
Complete Email Address Registration

Registration Flow

- STEP1
Register Email address
- STEP2**
Receive registration Email
- STEP3
Enter user information
- STEP4
Subscribe to content / service
- Registration complete

Your information has been submitted.
An email for entering personal information has been sent to the Email Address you provided.

If you move on to the next step, you can receive a verification email to the email address you entered in the first step.

If you have received the verification email, please go to the link for new registration and proceed.

MyRenesas
New Account Registration

Registration Flow

- STEP1: Register Email address
- STEP2: Receive registration Email
- STEP3: Enter user information**
- STEP4: Subscribe to content / service
- Registration complete

Registration Flow

Country / Region:

Language:

Given Name / First Name:

Family Name / Last Name:

Email Address:

*Indicates required fields

Password *:
Password must be 8 to 16 characters. Please use a mixture of letters, numbers, and symbols.

Password (confirm) *:

☒ Receive newsletters, notifications and promotions. [see note]

[Undo Changes](#) [Next](#)

After confirming the items you entered in the first step, set the password and click Next to continue.

MyRenesas
New Account Registration

Registration Flow

- STEP1: Register Email address
- STEP2: Receive registration Email
- STEP3: Enter user information
- STEP4: Subscribe to content / service**
- Registration complete

Please select the products for which you would like to see update notifications.

Category

- ☐ MPU and MCU
- ☐ Secure MCUs
- ☐ Power MOSFETs
- ☐ Intelligent Power Devices
- ☐ Diode
- ☐ Analog ICs for Automotive
- ☐ General-Purpose Linear
- ☐ Automotive LSI
- ☐ LSI for Communications and Mobile Devices
- ☐ Memory
- ☐ Renesas USB Power Delivery Family
- ☐ Engineering Services
- ☐ Tools
- ☐ Smart Analog
- ☐ Renesas Synergy™
- ☐ IGBT
- ☐ Thyristors and Triacs
- ☐ Power Management
- ☐ Other Analog & Mixed signal
- ☐ General-Purpose Logics
- ☐ LSI for Factory Automation
- ☐ USB ASSP
- ☐ Applications
- ☐ Boards and Kits
- ☐ Software (OS/Middleware/Driver)

Please select the applications for which you would like to receive newsletters/notifications

Application / System Solution

- ☐ Digital Home Electronics
- ☐ Network
- ☐ Automotive
- ☐ Wireless

Other

- ☐ Events
- ☐ RF/Optical Devices
- ☐ Press Releases

[Undo Changes](#) [Next](#)

In the fourth step, the checked item information is periodically sent to the registered e-mail. It is not mandatory so you do not need to have a choice anything, and please click Next..

MyRenesas

New Account Registration

Registration Flow

STEP1

Register Email address



STEP2

Receive registration Email



STEP3

Enter user information



STEP4

Subscribe to content / service



Registration complete

Thank you. Your registration is complete.

If you would like to edit your profile, log in to My Renesas and click "Edit your profile".

[Go to My Renesas](#)

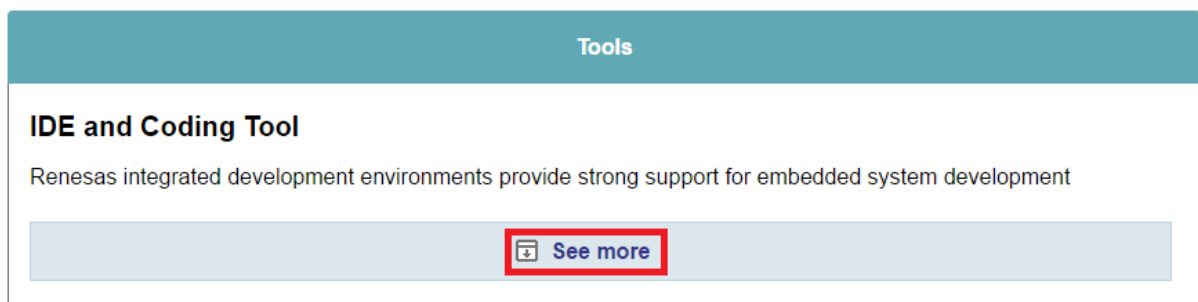
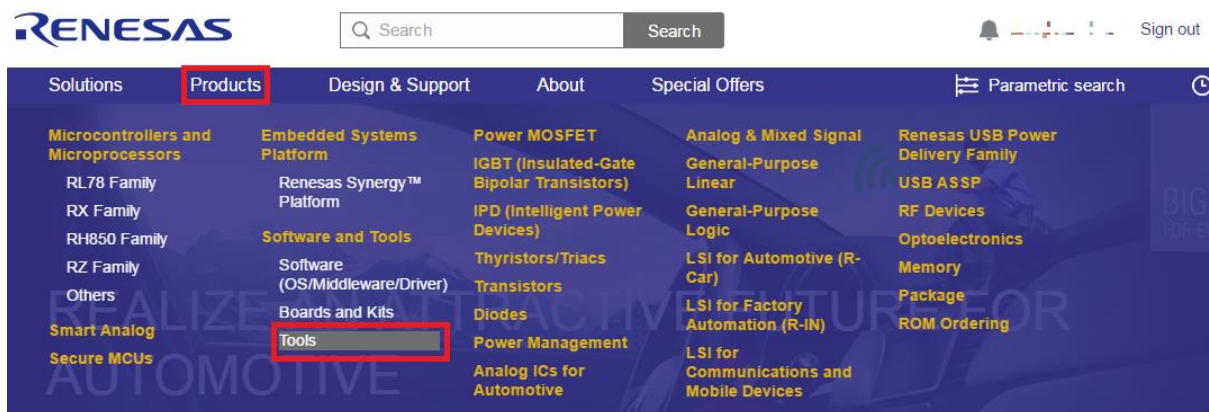
Registration is completed.

2 Tool Download

Development tools include e²studio, CS +, and workbench6. Workbench6 has a function to create touch project automatically using CTSU API.

2.1 e²studio Installer Download

First, log in Renesas homepage and enter the 'product information' ▷ 'tool' on the top bar.



Then the above window will appear. On "the IDE and Coding Tool side", click on 'See more' to expand the menu and select e²studio.

Tools

IDE and Coding Tool

Renesas integrated development environments provide strong support for embedded system development

 Close

Product Name	Description
e ² studio	Renesas Eclipse-based integrated development environment (IDE) , * You need to install compiler separately.
CS+ (formerly CubeSuite+)	Renesas integrated development environment (IDE) for RH850, V850, RX, RL78, 78K0R, 78K0, * CS+ is not generally promoted to U.S. and European customers. Customers in U.S. and Europe who are interested in CS+ are requested to contact our regional marketing departments for details.

e² studio

Renesas eclipse embedded studio, known as e² studio, is a complete development and debug environment based on the popular Eclipse CDT project. Essentially open source, the Eclipse CDT covers build (editor, compiler and linker control) as well as debug phase based on an extended GDB interface.

A wide range of compilers can be integrated into e² studio to ensure customer has the choice of tools to match their project requirements. When combined with the extremely powerful editor functionality and project management tools automatically built into Eclipse CDT, e² studio offers a state of the art coding environment for Renesas embedded controllers.

To complete the development cycle, Renesas has developed a range of GDB debuggers to interface between the coding environment and a range of on-chip and in-circuit emulators.

[Notes for using Smart Browser etc.]

Some error messages such as Smart Browser can be shown after the renewal of the Renesas Web site on May 30, 2016. For the details of this problem, please refer to this [Tool News](#).

This problem will be solved by updating to the latest revision of e² studio.

Please visit the [download page](#) for the latest revision.

Product Info

Design Support

Documentation

Downloads

Category

Products

☒ Evaluation Software
 > ☐ Sample Codes
 > ☐ Upgrades

Reset

Filter

Download - Select 'Evaluation Software' in category filter and click 'Filter' button to sort.

Download Selected Clear all	ProductName	Category	IssueDate	Description
☐	[New]e² studio 5.2 installer (Web installer)	Evaluation Software IDE Upgrades	Oct.05.16	
☐	[New]e² studio 5.2.0.020 installer (Offline installer)	Evaluation Software IDE Upgrades	Oct.05.16	Renesas e² studio IDE installation including debug and build phase support (toolchains not included in this download)

You can download either the Web installer or the offline installer from the next search results.

When you click on it, the download page will appear. There is a download button in the bottom right corner.

Download (D4000206)

Issue Date : Oct.05.16

카테고리 : Evaluation Software, IDE Upgrades

e² studio 5.2.0.020 installer (Offline installer)

Description

Click the following items for detailed information.

Tool News : [Release Information](#)

data sheet : [Products Information](#)

This installer is capable to do offline installation with included eclipse modules.

You could also choose "Web Installer" from [here](#) if the Internet connections are available.

How to install

Please download the installer file from the "Download Link" shown below, then launch the installer.

Note 1: e² studio has no capability of updating from V4.3 or earlier versions to V5.0 or later including V5.2 .

Please uninstall the earlier versions before installation.

Alternatively, if you would like to keep an earlier installations, please create a new folder for the new installation.

Note 2: Compiler product downloads will be skipped with no Internet connection.

Note 3: Windows OS may display a warning message "This program might not have installed correctly" after installations have done. This message does not mean installation failure. Please dismiss the message box by choosing "This program installed correctly".

Windows® 10 (32-bit, 64-bit)

Windows® 8.1 (32-bit, 64-bit)

Windows® 7 (32-bit, 64-bit)

Download

Product Name	File Name	File Size	Download Link
e² studio 5.2.0.020 installer (Offline installer)	setup_e2_studio_5_2_0_020.exe	919.08 MByte	Download

Click the download button and the agreement page will appear. Click the agree button at the bottom to start downloading.

AGREEMENT

Renesas Electronics Corp., a Japanese corporation, with a principal place of business at 6-2 Otemachi 2-chome, Chiyoda-Ku, Tokyo, Japan. ("Renesas") owns all intellectual property in the Software and permits you to use the Software (defined as below) only in accordance with the terms of this Agreement.

1. Definitions.

1.1 "Software"

"Software" means

(a) all of the contents of the software and the data which can be downloaded from Renesas's web-site with which this Agreement is provided, including related explanatory written materials or files ("Documentation") and

(b) upgrades, modified versions, updates, additions, and copies of the Software, if any, licensed to you by Renesas (collectively, "Updates").

1.2 "Use" or "Using"

"Use" or "Using" means to access, install, download, copy or otherwise benefit from using the functionality of the Software in accordance with the Documentation.

1.2 "Permitted Number"

"Permitted Number" means one (1) unless otherwise expressly permitted by Renesas.

d by a writing signed by an authorized officer of you and Renesas. Updates may be licens

provision of this Agreement shall not constitute a waiver of such provision or the right of s

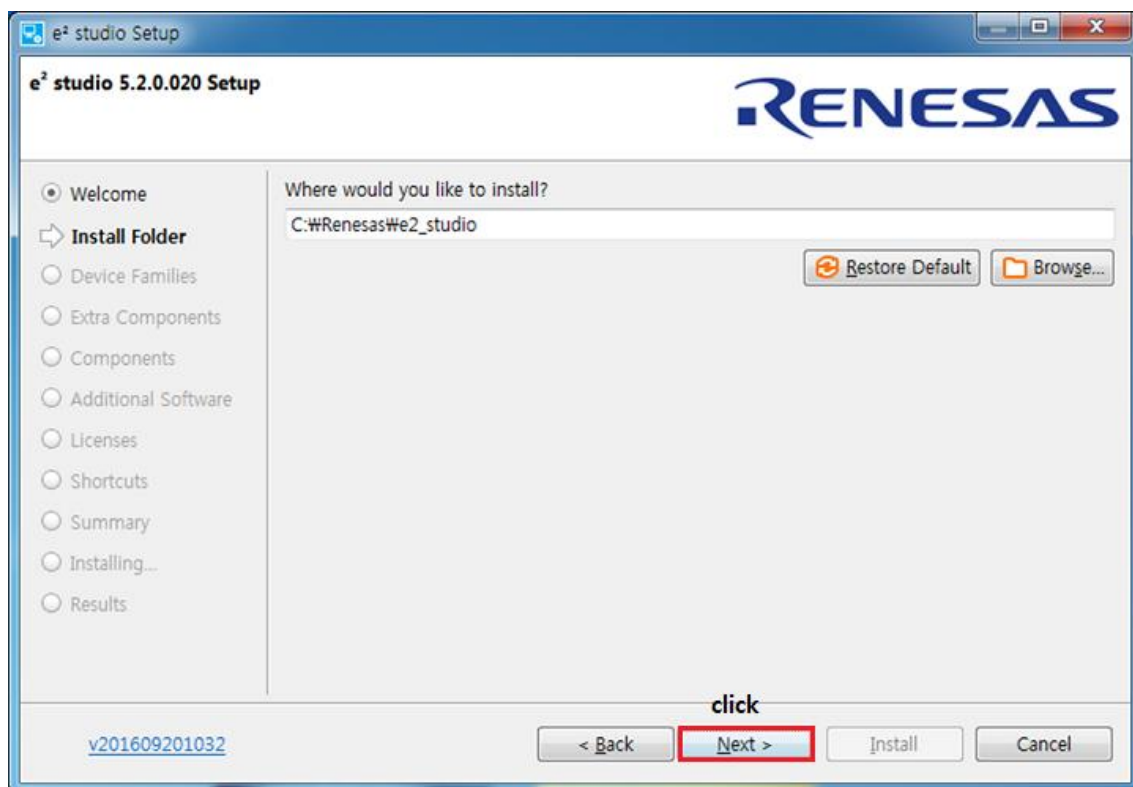
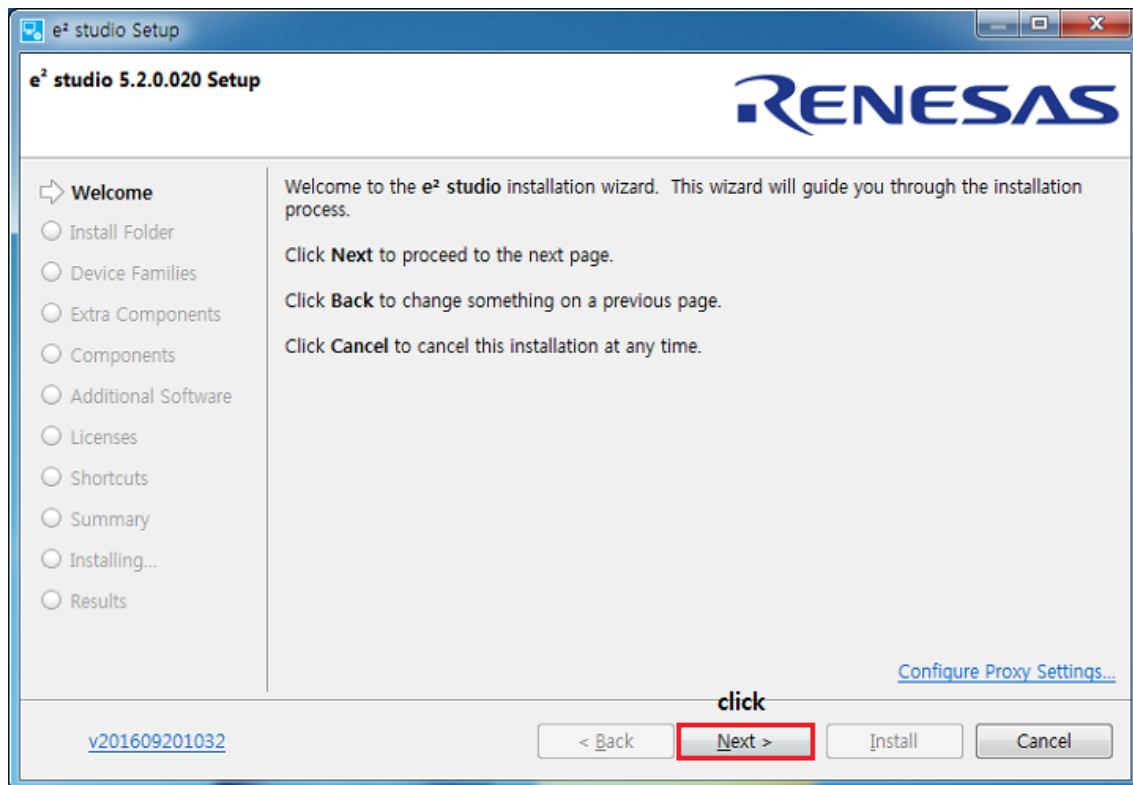
i Renesas and you relating to the Software and it supersedes any prior representations, d
ing to the Software.

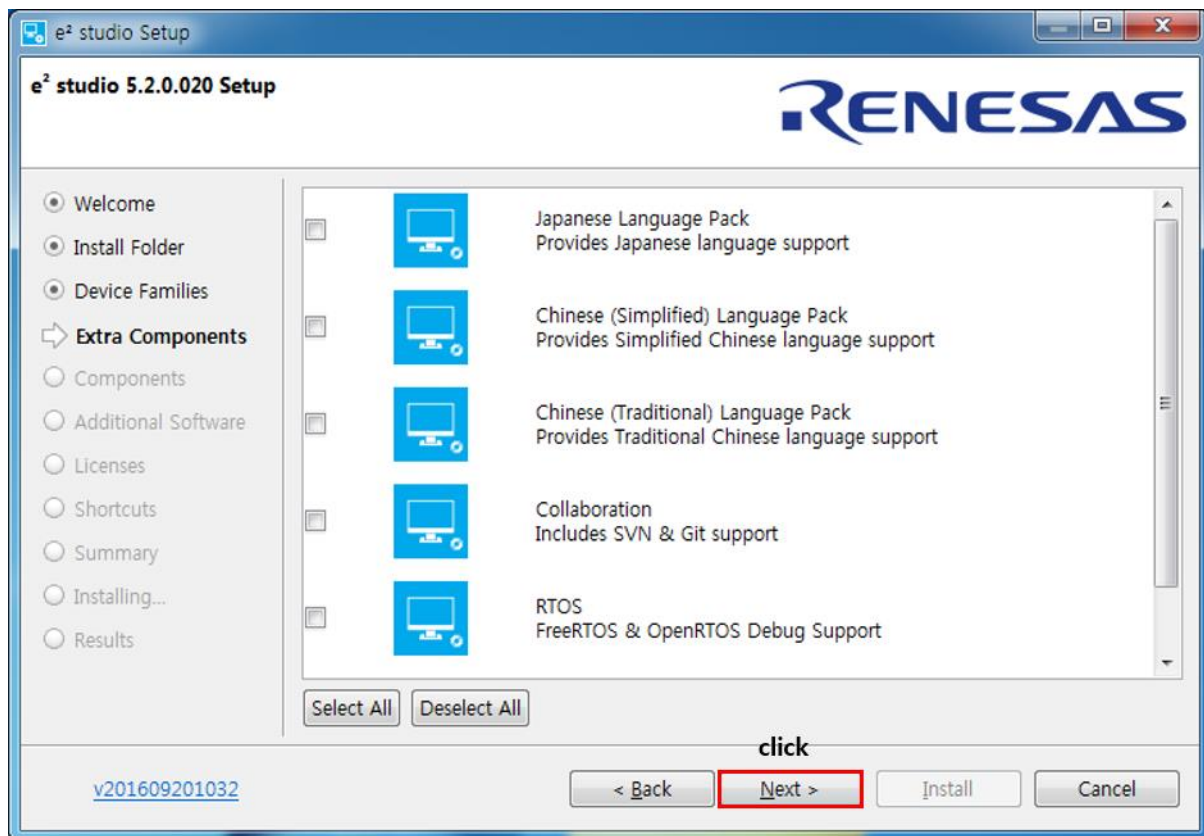
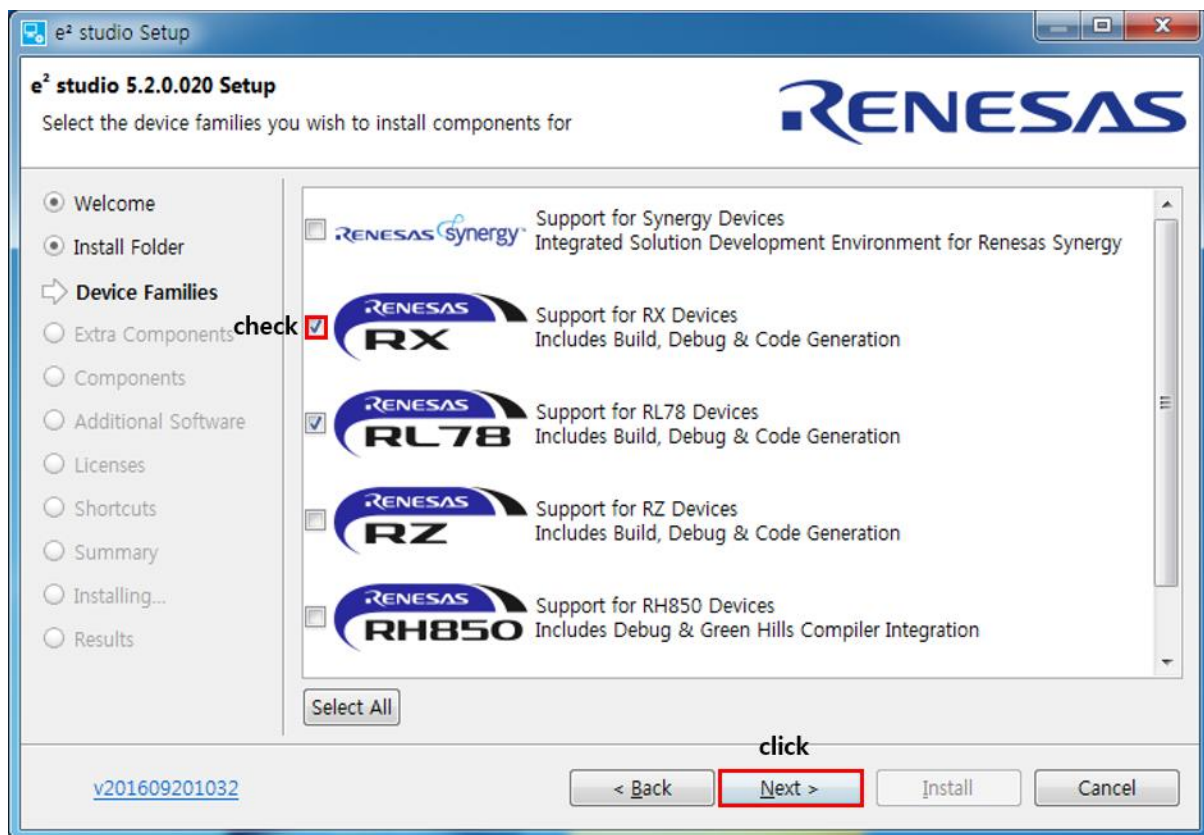
this Agreement or if you wish to request any information from Renesas please use the ad
entations.)

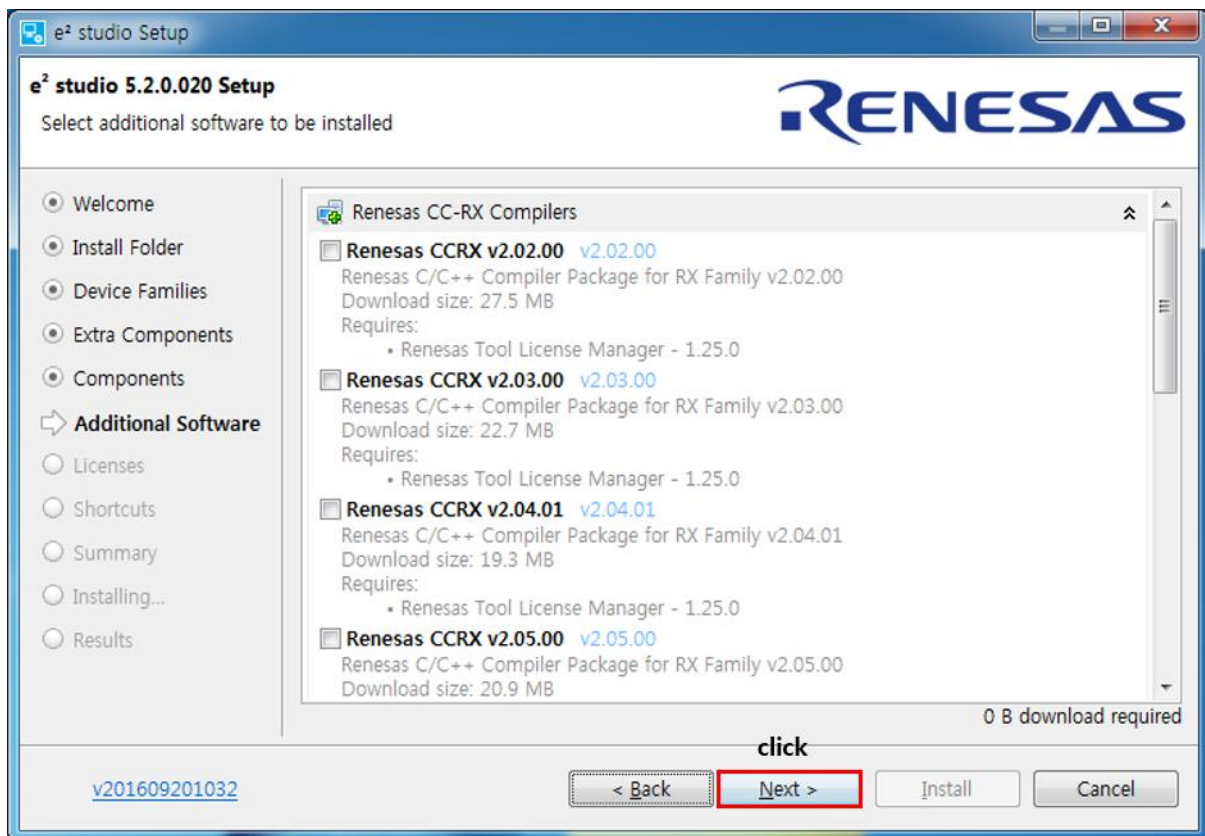
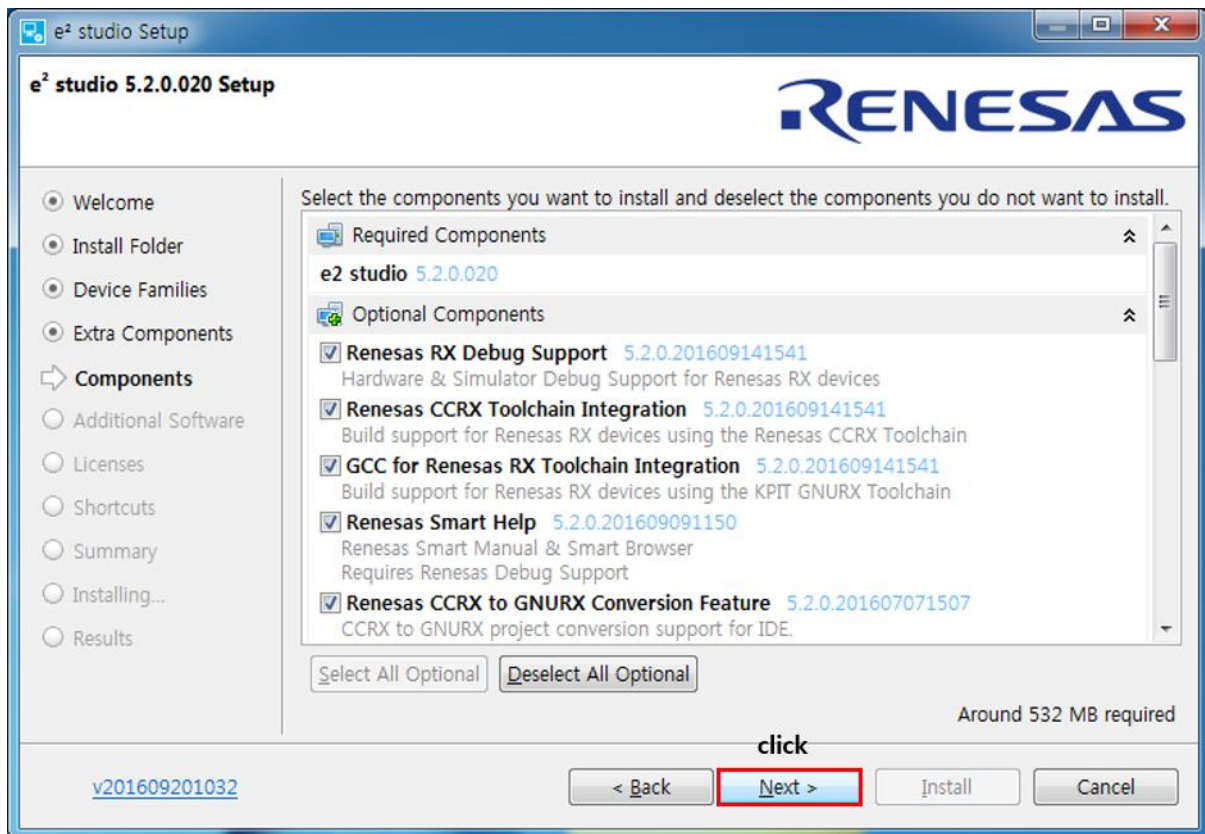
Agree

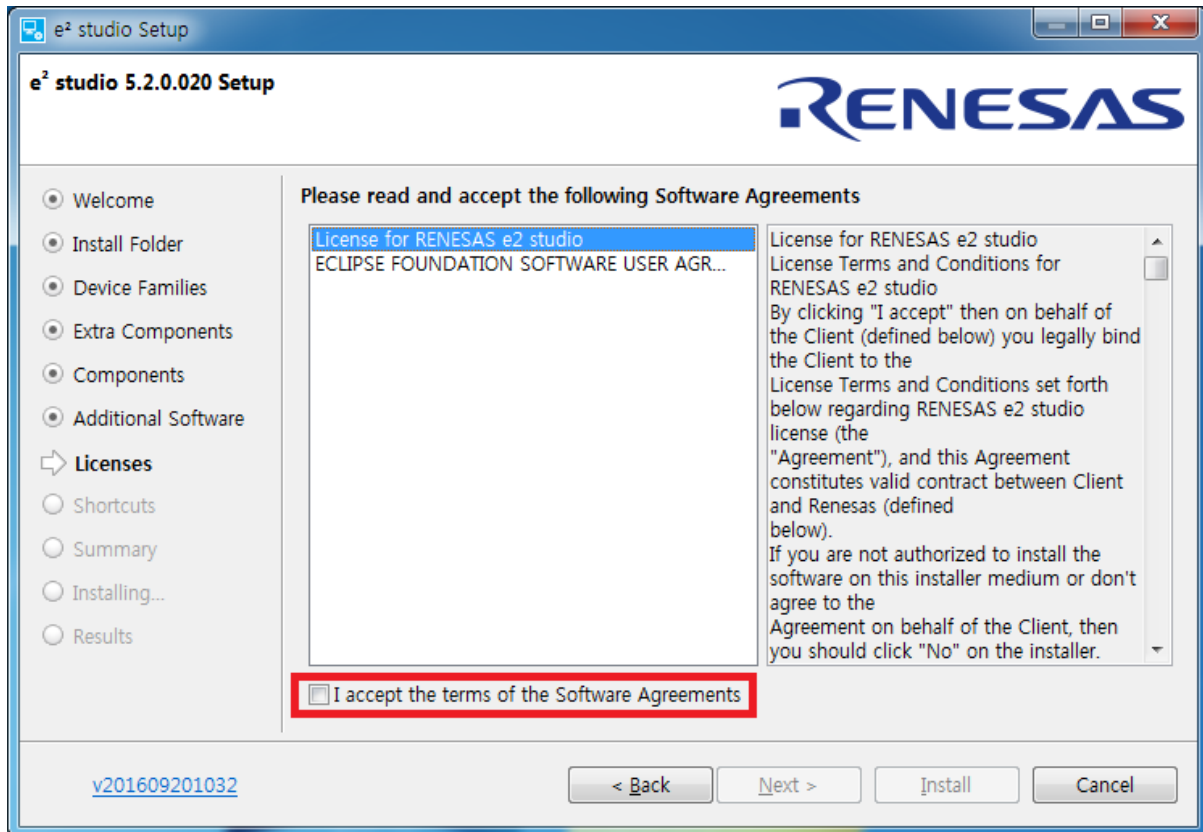
Disagree

2.2 e²studio Installation

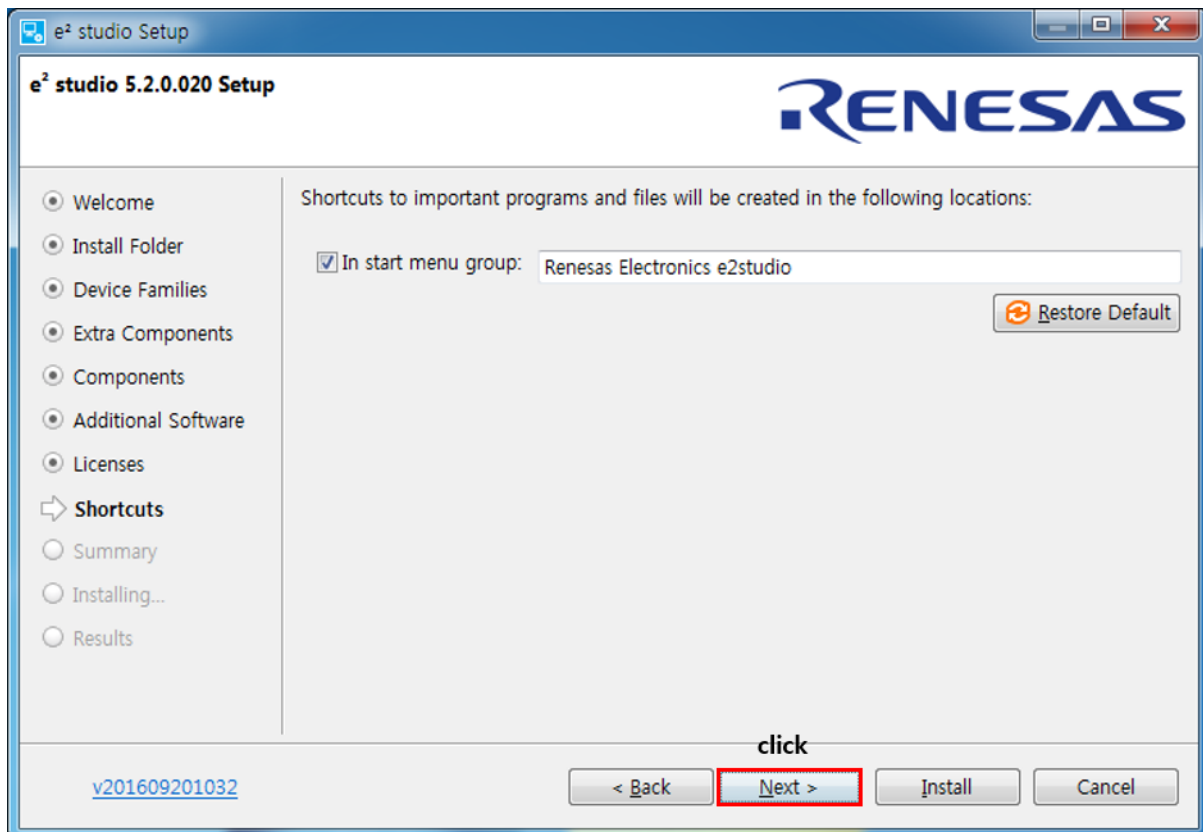


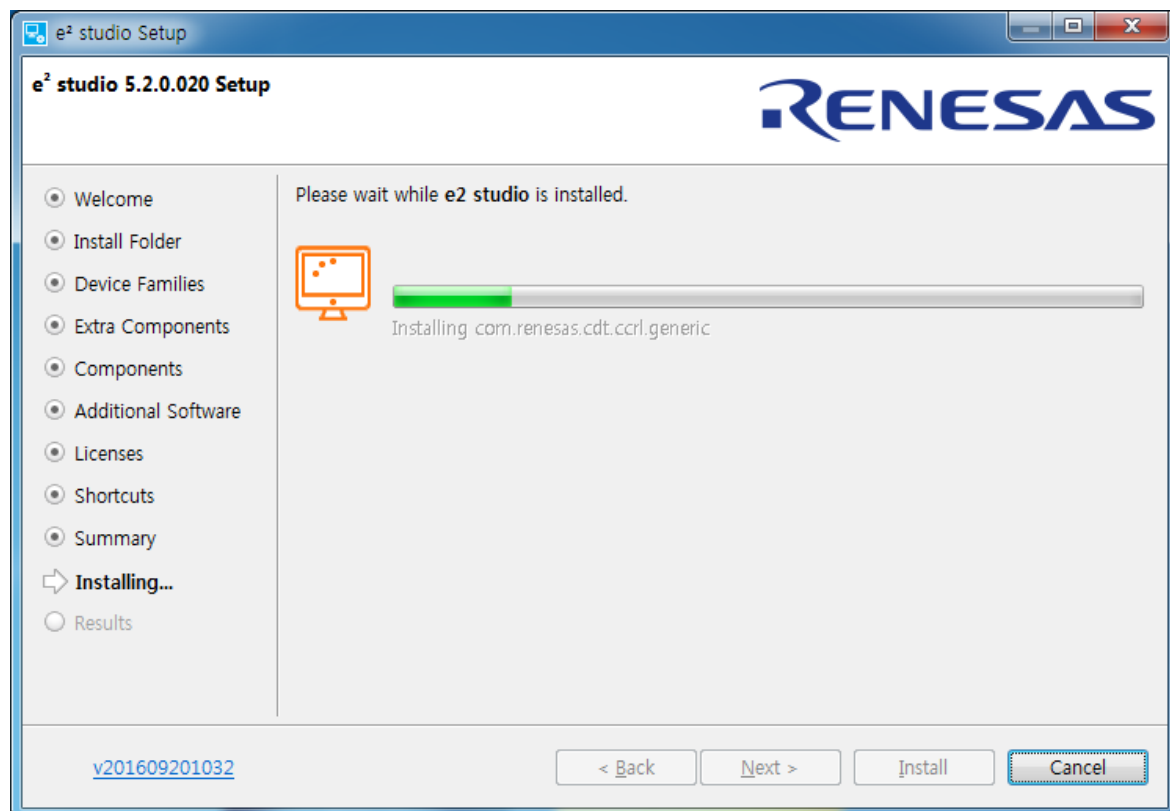
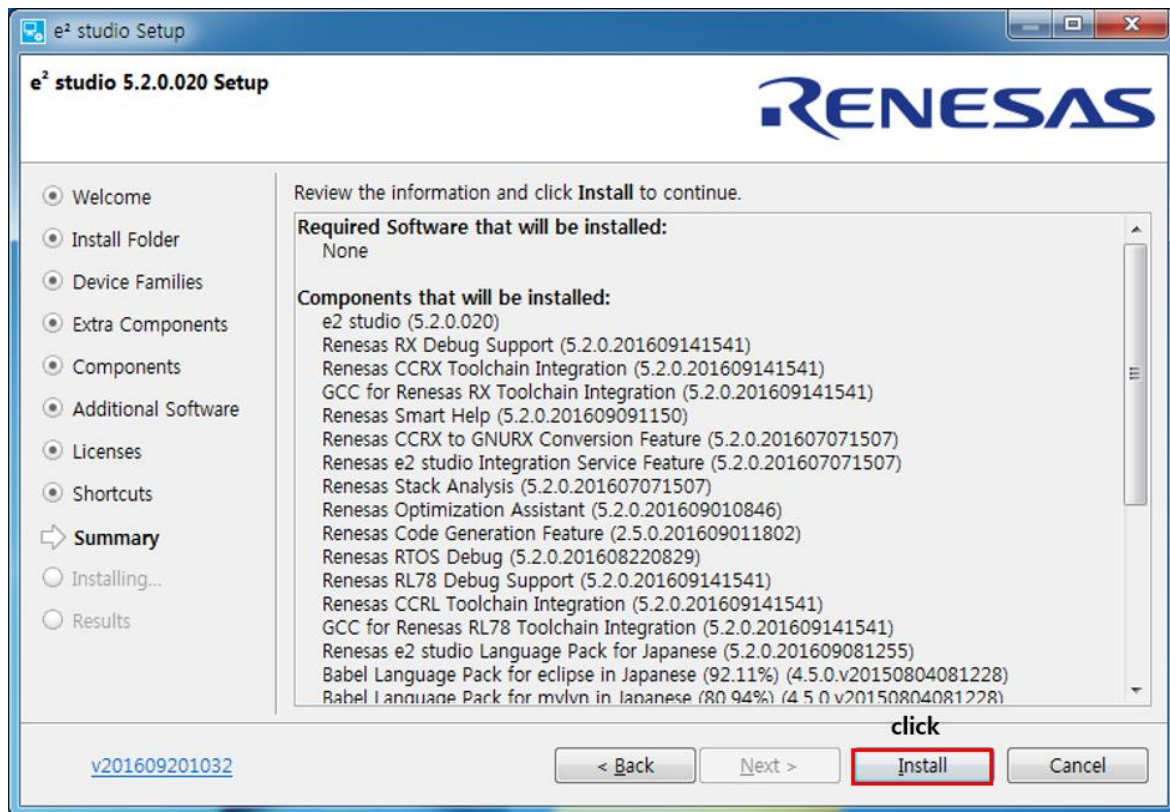




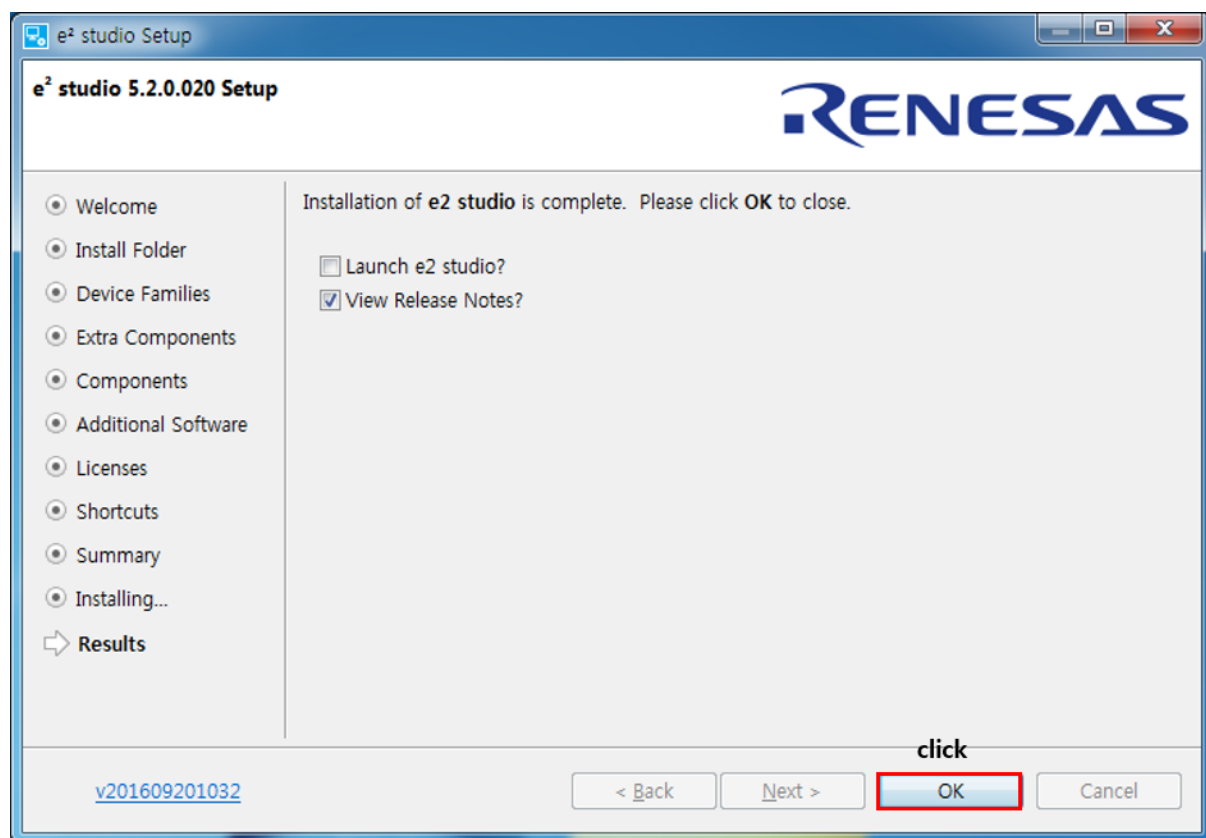


Check Accept terms and continue





Depending on the performance of the computer or the compiler installed, the installation time can be differ, so in some case it can be very long, but please have a patient to wait for the finish. In the middle, the USB driver, compiler installation will run additional installers, so please continue.



Installation complete

2.3 Workbench6 Installer Download

<https://www.renesas.com/ko-kr/software/D3017716.html>

Download (D3017716)

Issue Date : Aug.10.16

카테고리 : Others

Workbench6 Software (Ver.1.05.00.00)

Applicable Products

RX113

RX130

RX230, RX231

Comments

Software for Workbench6 touch evaluation tool (Ver.1.05.00.00)

Changes from Previous Version

What's changed from Ver.1.04.04.00 to Ver.1.05.00.00.

Added support for E2 emulator Lite when e2 studio is selected

Added support to display Japanese user interface.

Added selectable the USB-Serial port setting for target board.

Added support for low baud rate burst monitor when serial communication is selected

Improved the display of part of the tuning screen.

Modified the specifications of cap touch interface.

Modified the timing of the setting of unused TS pins to set at initialization.

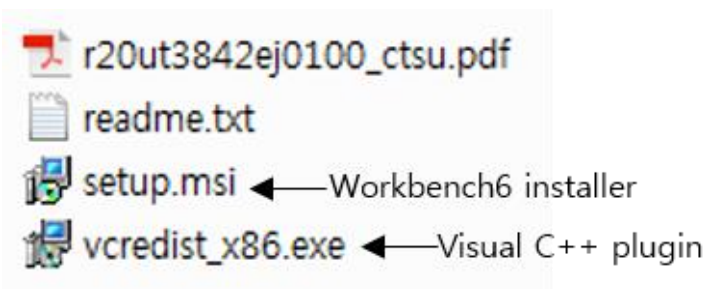
Fixed the issue of not being able to place a cap touch interface in First Step Guide.

Fixed the issue of the DTC vector table being placed outside the range when RX130 of 10KB SRAM is selected.

Fixed the issue of the parameter for response delay time for non-touch not reflecting.

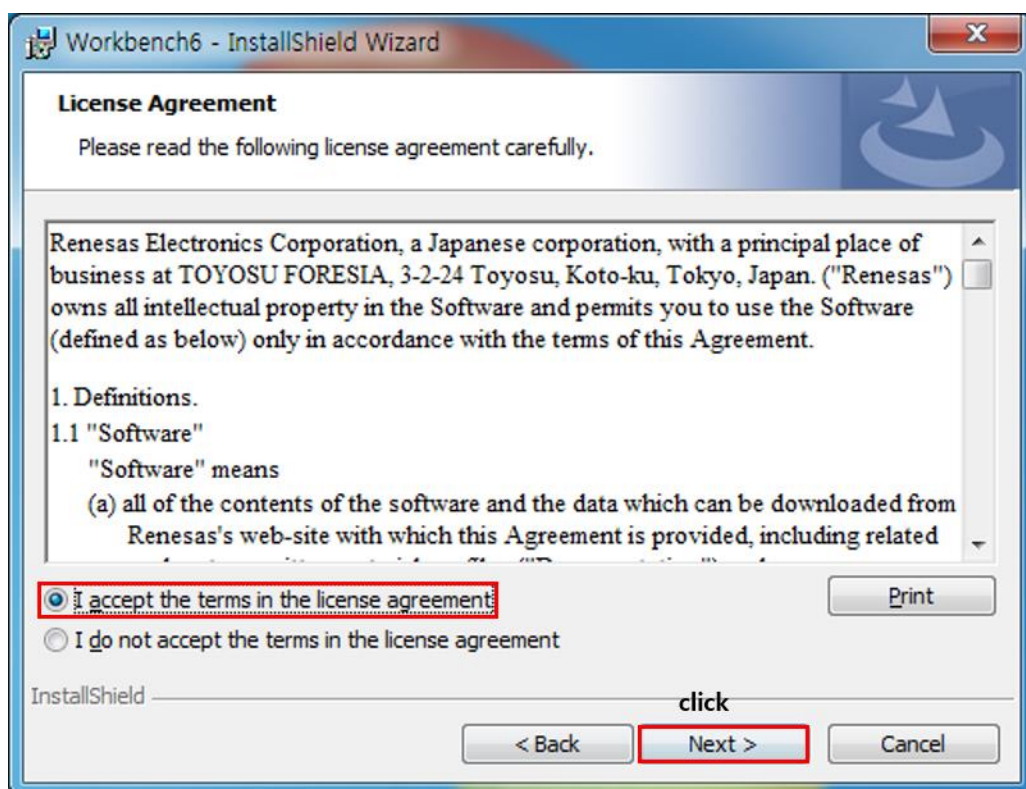
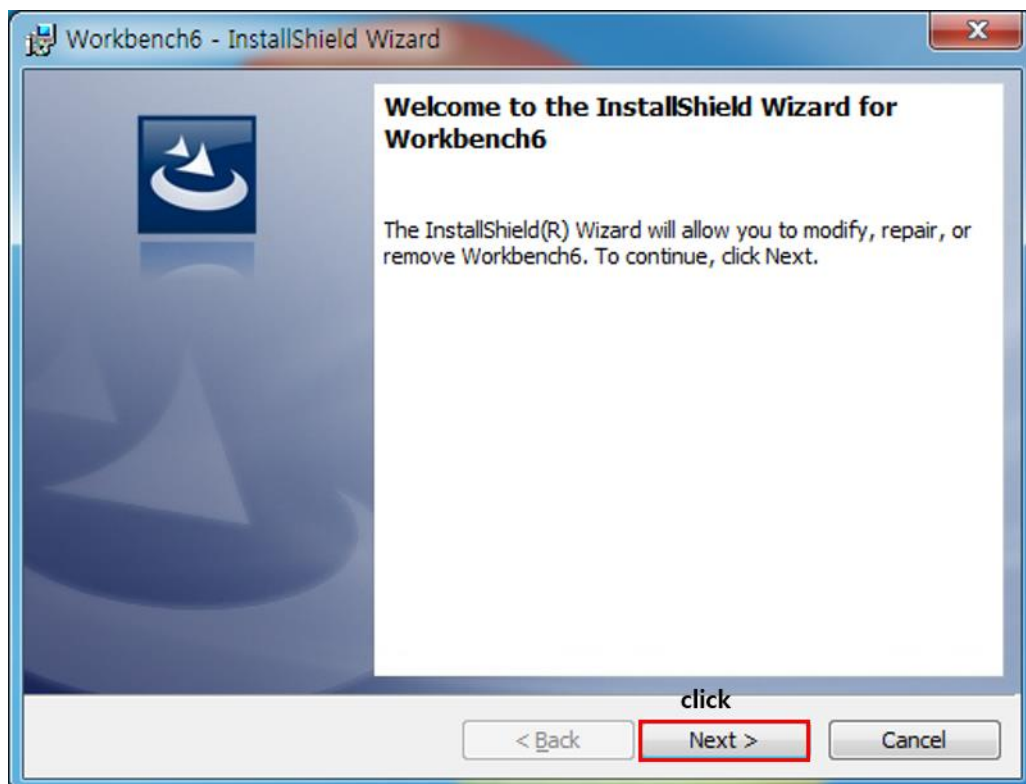
Download

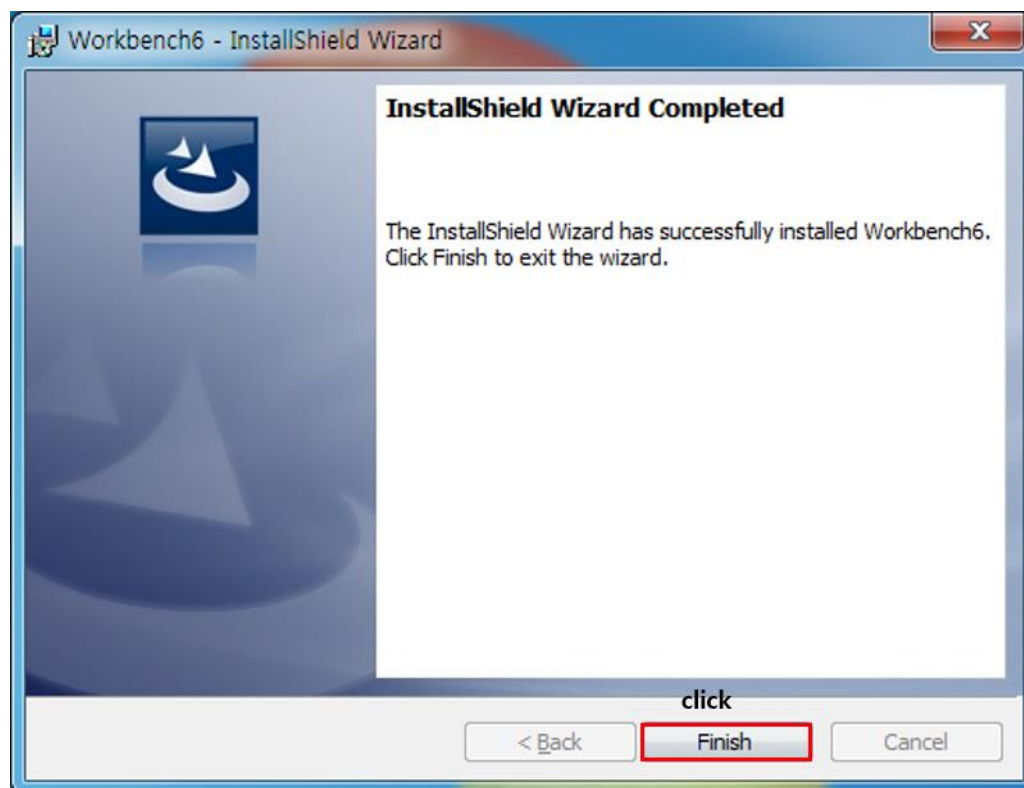
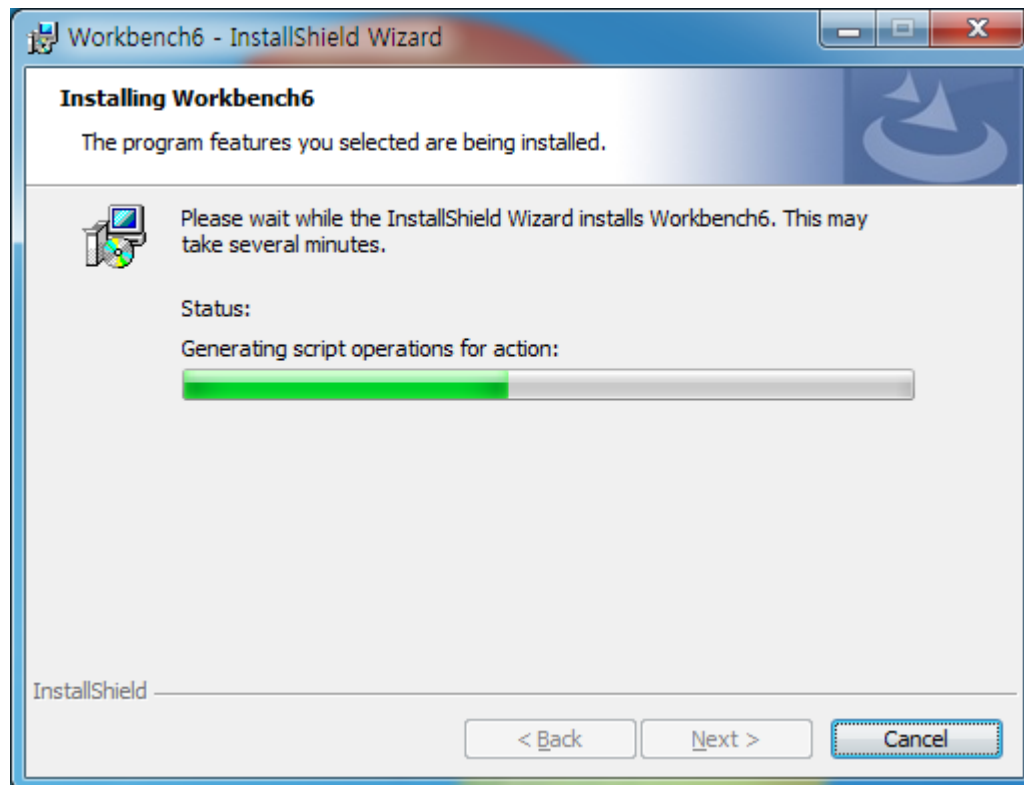
Product Name	File Name	File Size	Download Link
Workbench6 Software (Ver.1.05.00.00)	Workbench6_V1050000_E.zip	210.93 MByte	Download



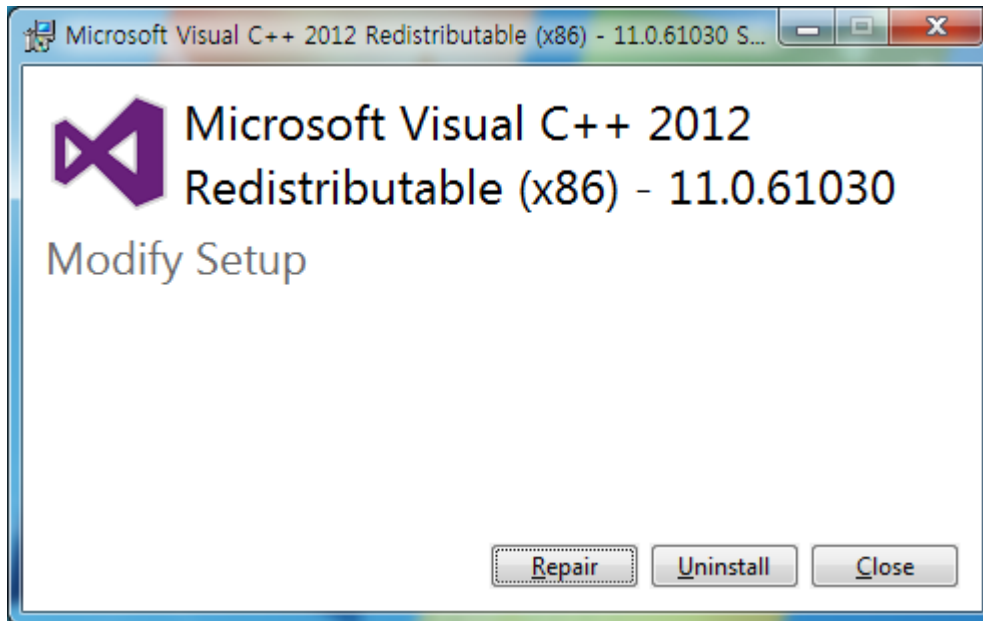
If you unzip the downloaded .zip file, you will see the same files as above.

2.4 Workbench6 Installation

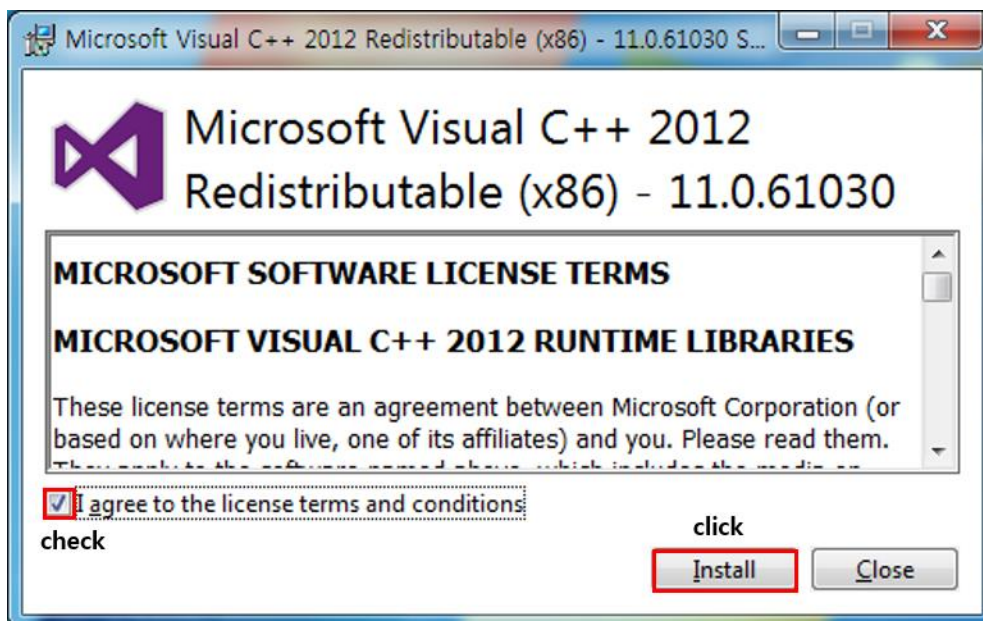


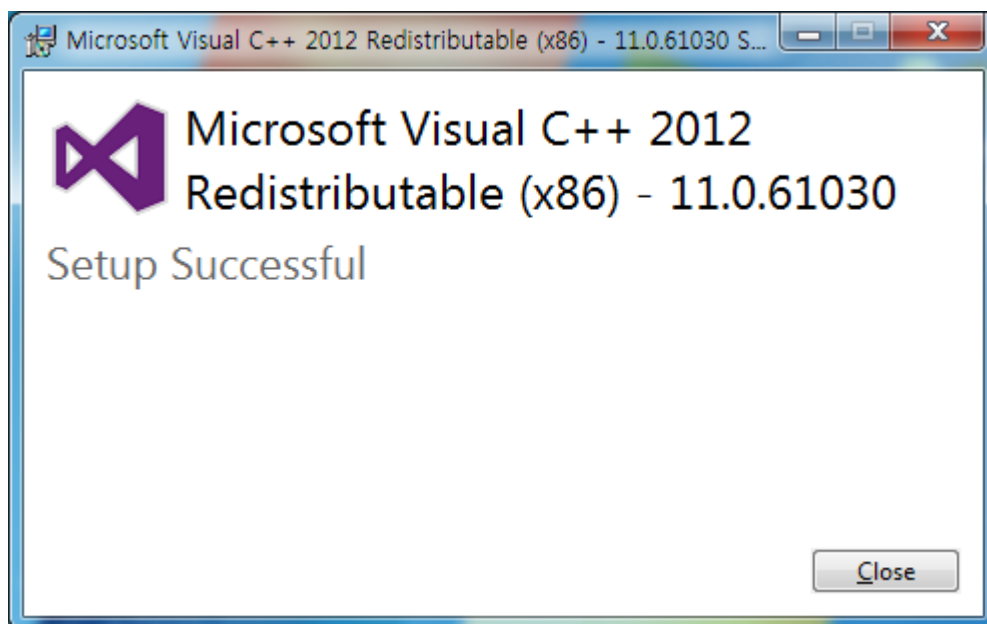
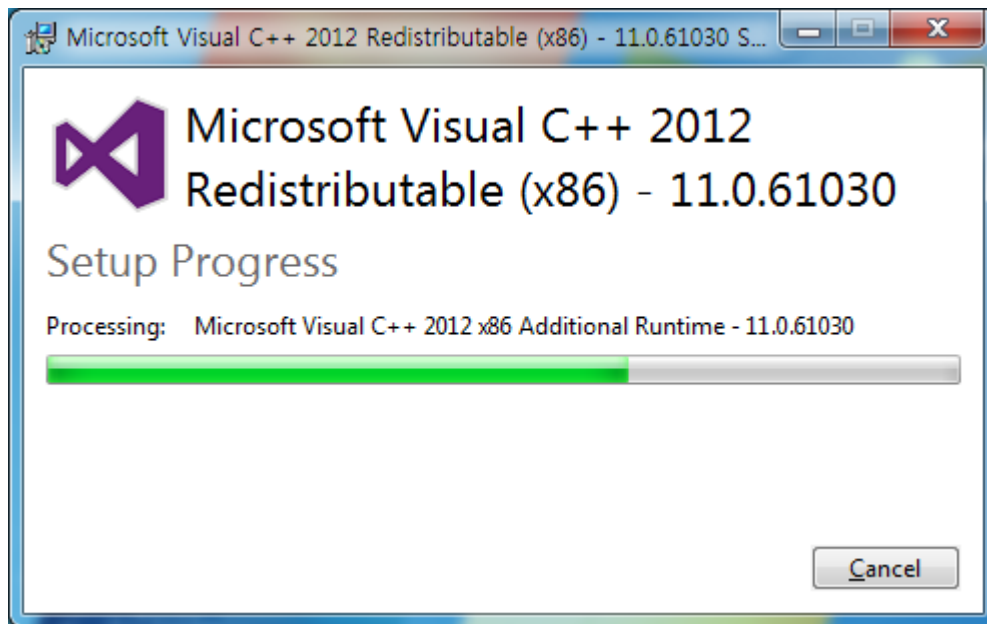


2.5 Visual C++ plugin installation



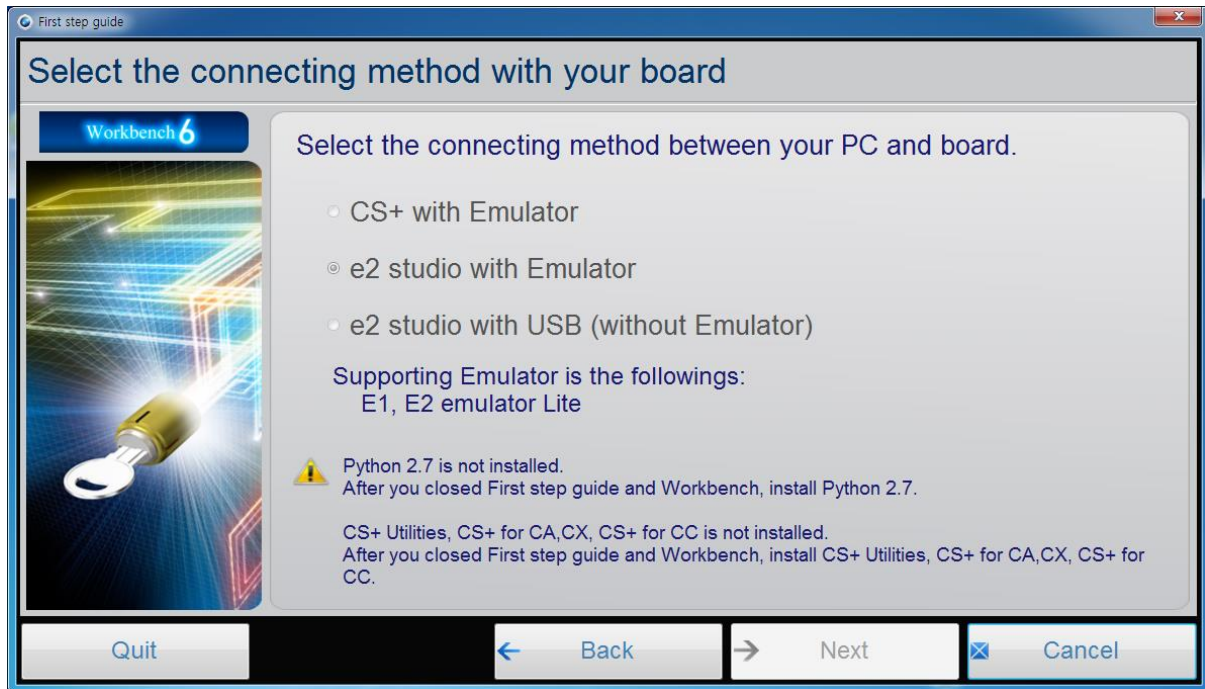
If the figure shown above is displayed, it is already installed.





Installation complete.

2.6 Python 2.7 Installation



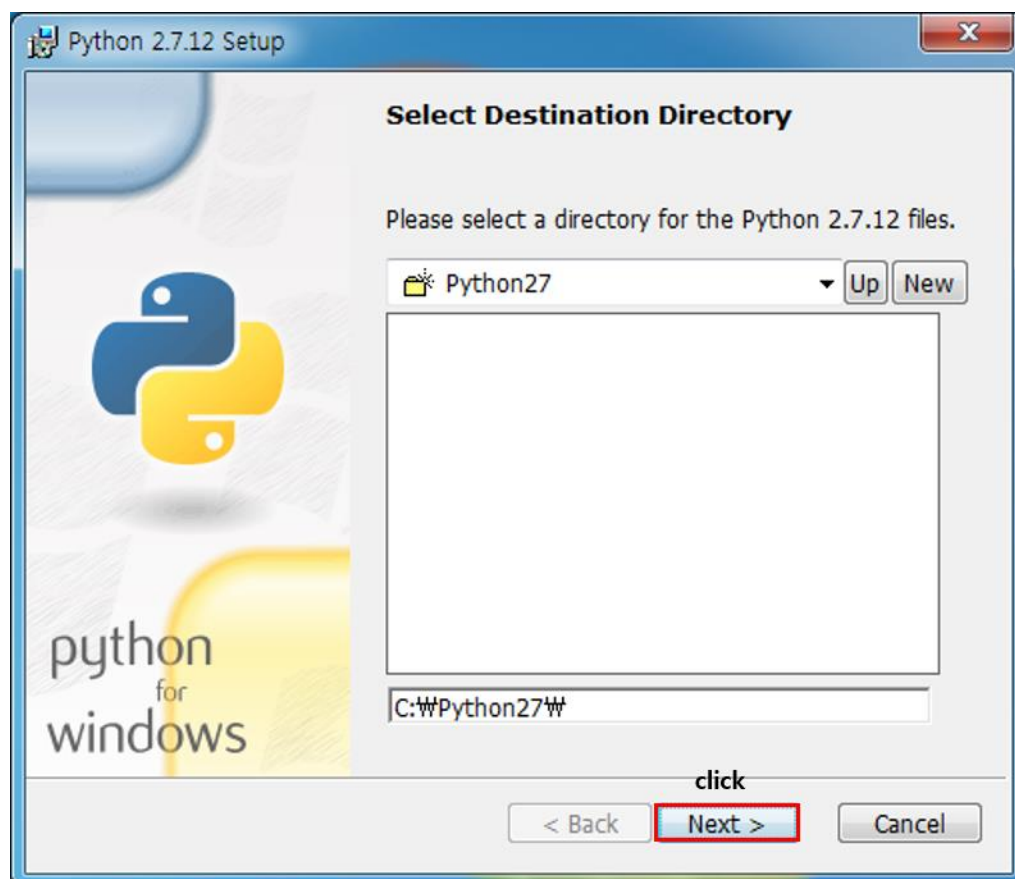
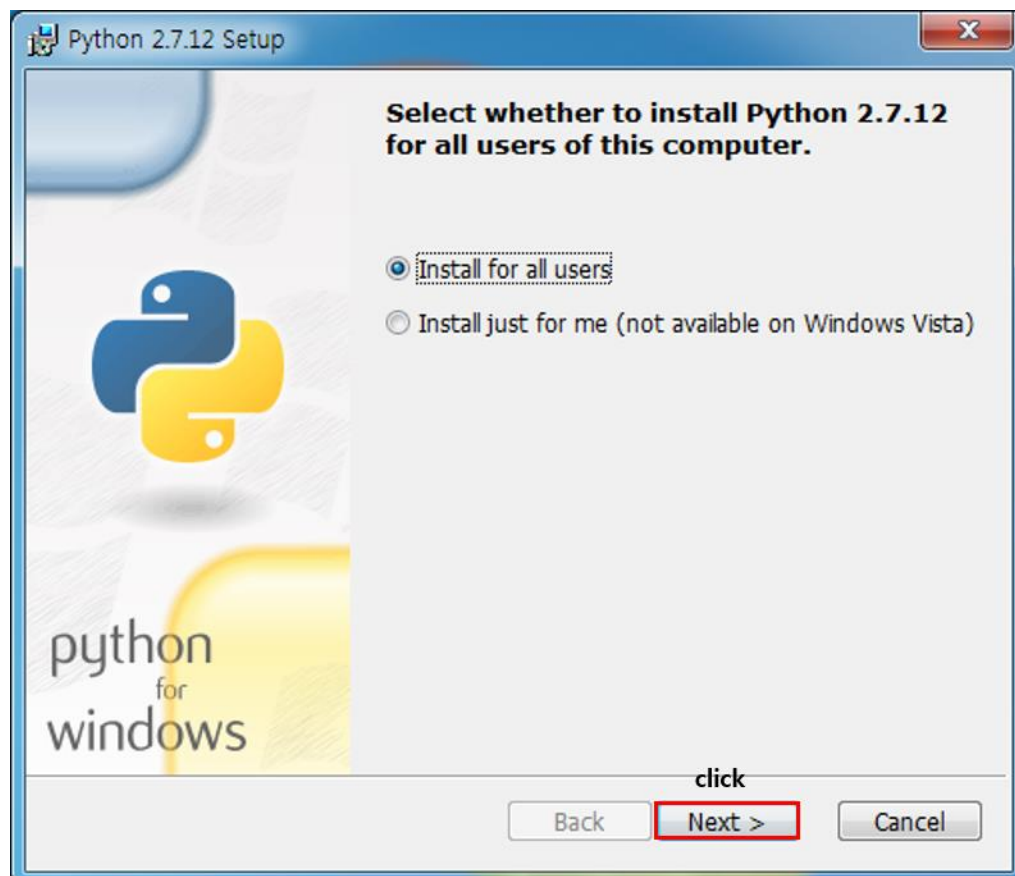
Workbench requires python2.7 to use e²studio.

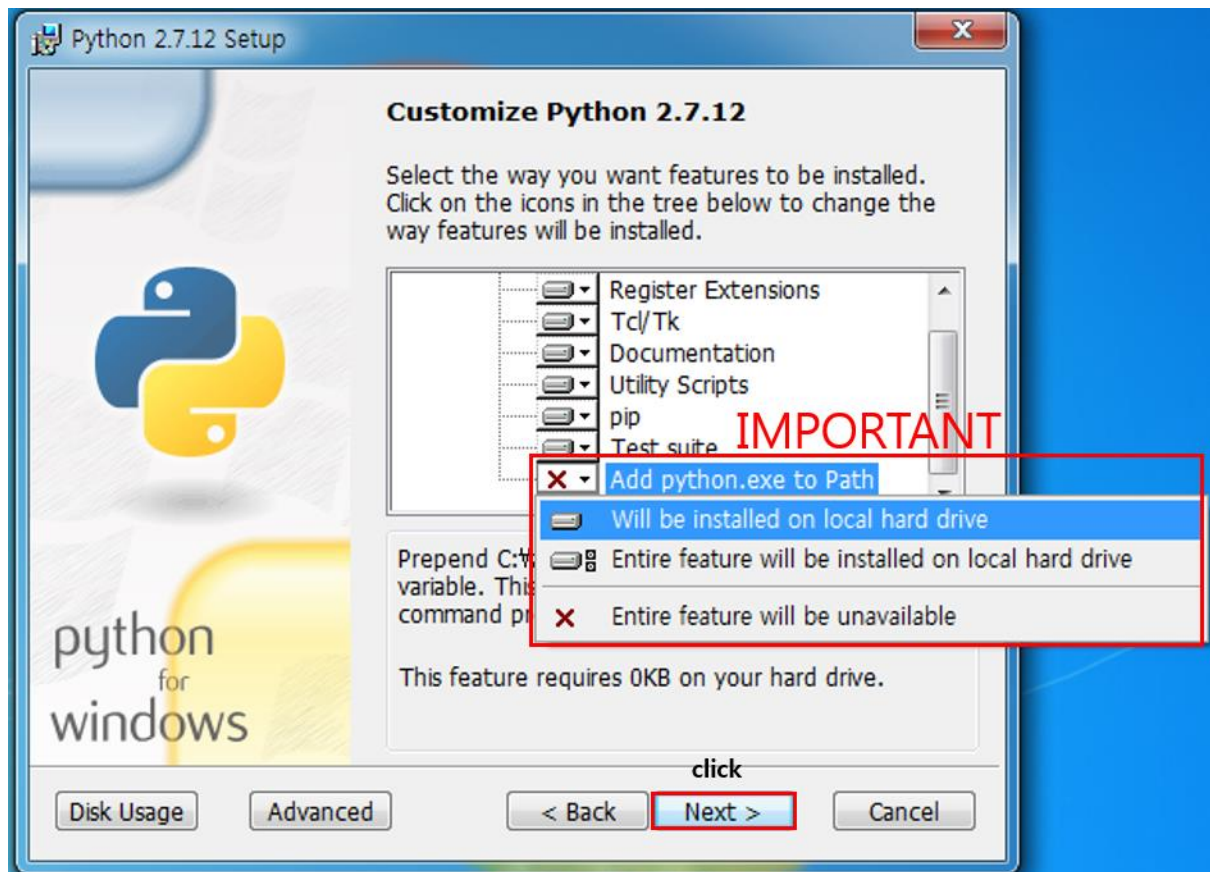
<https://www.python.org/downloads/>

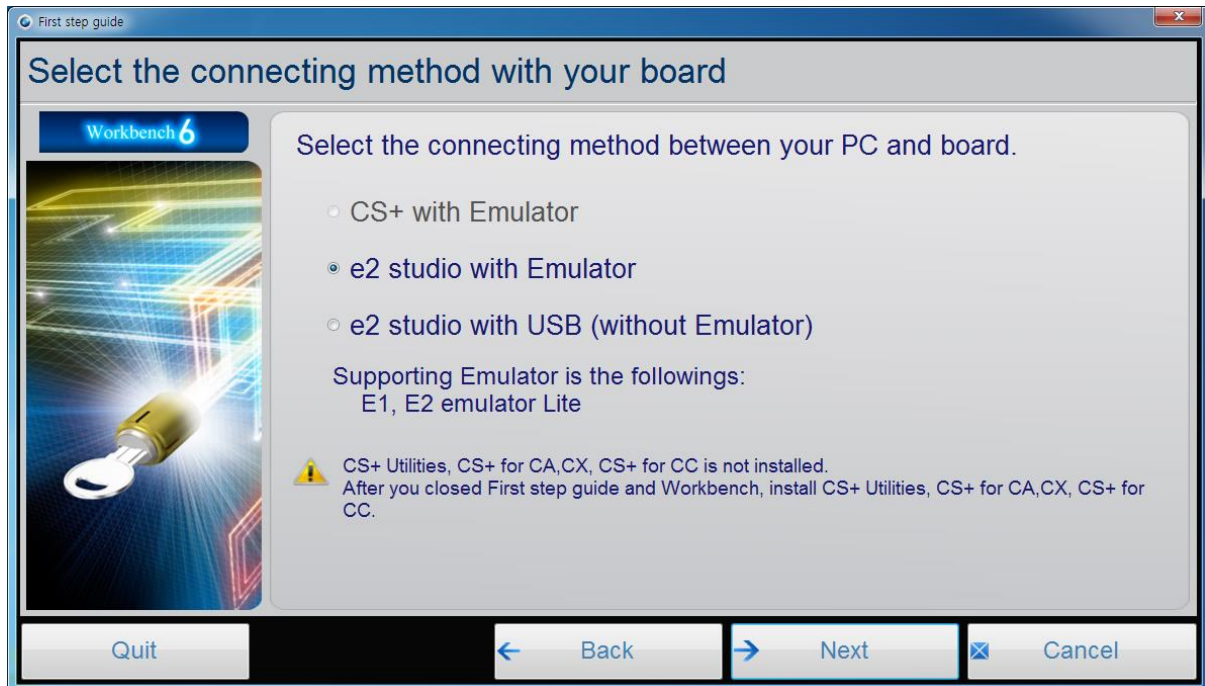
Once you have entered the link above, you will be taken to the official Python homepage.

<https://www.python.org/ftp/python/2.7.12/python-2.7.12.msi>

Python 2.7.12 installer download link







The installation of the tools for development is completed.