

[Released on the Web]

R20TS0684EJ0100

Rev.1.00

Apr. 13, 2021

e<sup>2</sup> studio RL78 Smart Configurator Plug-in V1.0.1,

RL78 Smart Configurator V1.0.1

## Overview

e<sup>2</sup> studio RL78 Smart Configurator plug-in V1.0.1 and RL78 Smart Configurator V1.0.1 will be released on the web.

## 1. Features

Smart Configurators are utilities for combining software in ways that meet your needs. They simplify the embedding of Renesas drivers in your systems through support for importing middleware e.g. capacitive touch sensing sensor, generating drivers, and configuring pins.

### ➤ Easily design an intelligent ELCL and SMS software

You can configure selection of the activation trigger and the combination of operation blocks used for SNOOZE Mode Sequencer (SMS) and logic functions for the Logic & Event Link Controller (ELCL) on the GUI.

### ➤ Import middleware e.g. capacitive touch sensor

You can import RL78 Software Integration System module (a software platform provided for RL78/G23) and configure pins and other settings. You can also use driver code generation at the same time.

### ➤ Driver code generation

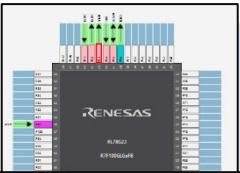
Peripheral functions are set on the GUI, and the driver code appropriate for the settings is generated. Check for errors in peripheral function settings and changes of channels are also supported.

### ➤ Pin settings

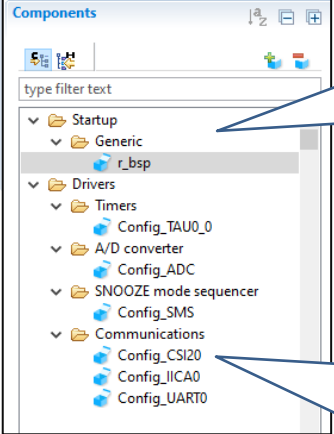
You can use the pin configuration figure and the pin configuration table to check and, if necessary, solve conflicts in commonly used pins. If a conflict occurs, you can automatically change the assignment destination by the pin assignment change button, and solve the conflict with a single click.

# SmartConfigurator

### Pin settings



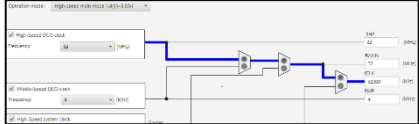
### Software Management View



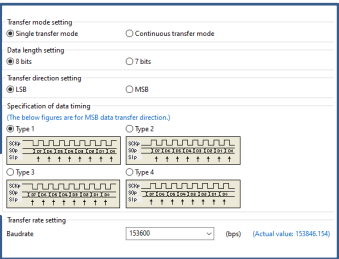
### BSP

Property	Value
Configurations	
Start up select	Enable (use BSP startup)
Control of invalid memory access detection	Disable
RAM guard space (GRAM0-1)	Disabled
Guard of control registers of port function (PDR)	Disabled
Guard of registers of interrupt function (INT)	Disabled
Guard of control registers of clock control function	Disabled
Data flash access control (DFLEN)	Disabled
Initialization of peripheral functions by Code Gen	Enable
Parameter check enable	Enable
Setting for starting the high-speed on-chip oscil	High-speed
Enable user warm start callback (PRE)	Unused
Enable user warm start callback (POST)	Unused
Enable user warm start callback (POST)	Unused

### Clock settings



### Driver code generation



## 2. Supported Microcontrollers

RL78 family: RL78/G23 group

## 3. Operating Environment

[Operating Environments for the Latest Versions of Tool Products](#)

## 4. Updating Your Product

The method of updating depends on the product you are using.

For details, refer to the following. The updates are available free of charge.

### 4.1 For e<sup>2</sup> studio

For the method of updating e<sup>2</sup> studio, refer to section 3, "Updating Your Product" in the following Tool News. This information will be released on April 13.

<https://www.renesas.com/software-tool/e-studio>

RENESAS TOOL NEWS, April 13, Document No. R20TS0685EJ0100

[Upgrade to version] e<sup>2</sup> studio Integrated Development Environment 2021- 04

Note that by updating e<sup>2</sup> studio, the RL78 Smart Configurator plug-in will also be updated.

### 4.2 For CS+

To update your program, use either of the following methods:

- (a) Download RL78 Smart Configurator from the following URL, and then install the program.

The program will be available from April 13.

<https://www.renesas.com/smart-configurator>

Smart Configurator for RL78 V1.0.1

If you have not installed V8.05.01 of CS+ Device Information for RL78 Family, refer to the following URL to update your version.

[Upgrade to revision] CS+ Device Information for RL78 Family V8.05.01

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts648>

- (b) From the Windows Start menu, select Programs and then Renesas Electronics CS+ to start the Update Manager and update the program. This service will be available from April 13.

**Note: If your CS+ has been launched with rapid startup enabled, exit the CS+ once, and then run the Update Manager.**

**If the CS+ is resident in the notification area of Windows (system tray) due to rapid startup, an error occurs and produces the following message:**

M0120001

"CubeSuiteW+.exe"

Installation is suspended because "CubeSuiteW+.exe" is running.

It will be resumed next time you start the tool.

### 5. Documentation

The following documentation is available in the Smart Configurator web page.

<https://www.renesas.com/smart-configurator>

- RL78 Smart Configurator User's Guide: CS+ (R20AN0580)

You need to install the RL78 Smart Configurator communication plug-in to operate the standalone edition of the Smart Configurator (RL78 Smart Configurator) in linkage with the CS+ integrated development environment.

- RL78 Smart Configurator User's Guide: e<sup>2</sup> studio (R20AN0579)

Install the e<sup>2</sup> studio 2021-04 or later to use the e<sup>2</sup> studio RL78 Smart Configurator plug-in. You can use it by configuring the Smart Configurator when creating a project.

- RL78 Smart Configurator User's Guide: IAREW (R20AN0581)

To use this plug-in, register a source file output by the standalone edition of the Smart Configurator (RL78 Smart Configurator) in IAREW.

- Smart Configurator User's Guide: RL78 API Reference (R20UT4852)

This document describes how to use the functions output by the RL78 Smart Configurator.

## Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Apr.13.21	-	First edition issued

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