RENESAS TOOL NEWS

[Upgrade to Revision] e² studio RL78 Smart Configurator Plug-in 2025-04, Smart Configurator for RL78 V1.13.0

R20TS1123EJ0100 Rev.1.00 Apr. 20, 2025

Outline

The products in the title have been updated as follows.

- (1) e² studio RL78 Smart Configurator Plug-in: From 2025-01 to 2025-04
- (2) Smart Configurator for RL78: From V1.12.0 to V1.13.0

1. Products to Be Updated

- e² studio 2025-01 (RL78 Smart Configurator Plug-in 2025-01) and earlier \triangleright
- Smart Configurator for RL78 V1.12.0 and earlier \geq

Description 2.

2.1 New features

- A link is now displayed on the "Overview" tab for quick navigation to preferences.

- Current Configuration					
Note: The code generation behavior can be customized in the <u>Preferences</u> page. ^①					
Selected board/device: R7F101GLGxFB (ROM size: 128KB, RAM size: 12KB, Pin co The available customizations include:					
Generated location (PROJECT_LOC\): src\smc_gen Edit			- Omitting PDF documentation from the generated source.		
Selected components:				- Options to output all API functions or only initialization functions. - Options to change API code style from macros to hex values.	
Component	Version	Configuration		- Enabling or disabling the backup of previous generated code.	
D/A Converter	1.5.0	Config_DAC0(DAC0: unused)			
Dverview Board Clocks System Components Pins Interrupt					

- A search text box is added at property grid configuration to help users quickly find a configuration name or macro name.

Components	à 4 🖞 🗎 🗎	Configure				
511 iš	6.5	type filter text (* = any string, ? = any character)				
type filter text • ൙ Startup		Property	Value			
👻 🗁 Generic		# Start up select	Enable (use BSP startup)			
😵 r_bsp		# Control of illicit memory access detection (IAWEN)	Disable			
> 😑 Drivers		# Protected area in the RAM(GRAM0-1)	Disabled			
> 🖻 Middleware		# Protection of the port control registers(GPORT)	Disabled			
		# Protection of the interrupt control registers(GINT)	Disabled			
		# Protection of the clock, voltage detector, and RAM parity error detection contro	Disabled			
		# Data flash memory area/extra area access control(DFLEN)	Disables			
		# Initialization of peripheral functions by Code Generator/Smart Configurator	Enable			
		Macro definition: BSP CFG INVALID MEMORY ACCESS DETECTION ENABLE				
		0 = Disables the detection of illicit memory accesses.				
		1 = Enables the detection of illicit memory accesses.				

Overview Board Clocks System Components Pins Interrupt



- Changed the Blinky project generated by e² studio to make two LEDs blinking.

oject templat	selection				
o 🧔	Bare Metal - Minimal Bare metal project that includes BSI runtime environment.	P. This project will in	tialize clocks, pii	ns, drivers	and the C
Ø	Bare Metal - Blinky Bare metal project that includes BSI clocks, pins, drivers and C runtime		available. This p	project wil	ll initialize

2.2 Issues Fixed

The following issues have been fixed.

- Fixed that generated code is incorrect when using P50 and P51 on RL78/G23.

- Fixed the issue of TSPMCx (x = 1,5,6,7) register setting is wrong in API R_Config_PORT_Create () on RL78/F22.

- Fixed a problem that fIMP of RL78/G23 was dependent on Middle-speed on-chip oscillator frequency (fIM). (fIMP needs to be fixed at 4 MHz)

				fIMP	
Middle-speed on-chi	p oscillator	- •		- 4	(MHz)
Frequency:	1 • (MHz)				
		Divider			

See RL78/G23 User's Manual Hardware, Section 6 Clock Generator Figure 6-1

fIM: Middle-speed on-chip oscillator clock frequency (4 MHz max.)

fIMP: Middle-speed on-chip oscillator peripheral clock frequency (4 MHz)

Please refer to the following release notes for details on new features and modifications.

Smart Configurator for RL78 V1.13.0 Release Note (the note will be uploaded on April 21) https://www.renesas.com/software-tool/rl78-smart-configurator#documents



3. Updating the Product

3.1 Using e² studio

By updating e² studio, you can also update the Smart Configurator.

For details on how to update e^2 studio, please refer to "3. How to Update" in the following Tool News. (the news will be uploaded on April 21)

https://www.renesas.com/software-tool/e-studio#documents

RENESAS TOOL NEWS: R20TS1118EJ0100 (April 20, 2025, issue)

[Upgrade to Version] e² studio Integrated Development Environment 2025-04

Note: The Smart Configurator is updated automatically when e² studio is updated.

3.2 Using CS+

(1) Download the latest Smart Configurator for RL78 from the URL below and install it (V1.13.0 will be released on April 21).

https://www.renesas.com/rl78-smart-configurator#downloads

Smart Configurator for RL78 V1.13.0

(2) On the Windows Start menu, select Programs, Renesas Electronics CS+, and then run the Update Manager (this service will be available from April 21).

Note: If you have started CS+ with the Rapid Startup function enabled, exit CS+, and then start the Update Manager.

If the Rapid Startup function is enabled and the CS+ icon is shown in the Windows notification area, the following error occurs.

M0120001

"CubeSuiteW+.exe"

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

It will be resumed next time you start the tool.



Revision History

		Description		
Rev.	Date	Page	Summary	
1.00	Apr. 20.25	-	First edition issued	

Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

The past news contents have been based on information at the time of publication. Now changed or invalid information may be included.

The URLs in the Tool News also may be subject to change or become invalid without prior notice.

Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan

www.renesas.com

Trademarks

Renesas and the Renesas logo are trademarks of Renesas Electronics Corporation. All trademarks and registered trademarks are the property of their respective owners.

Contact information

For further information on a product, technology, the most up-to-date version of a document, or your nearest sales office, please visit: www.renesas.com/contact/

