[Upgrade to Revision] e² studio RX Smart Configurator Plug-in 2025-01, Smart Configurator for RX V2.24.0 R20TS1093EJ0100 Rev.1.00 Jan. 20, 2025

Outline

The products in the title have been updated as follows.

- (1) e² studio RX Smart Configurator Plug-in: From 2024-10 to 2025-01
- (2) Smart Configurator for RX: From V2.23.0 to V2.24.0

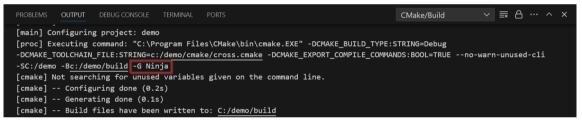
1. Products to Be Updated

- > e² studio 2024-10 (RX Smart Configurator Plug-in 2024-10) and earlier
- Smart Configurator for RX V2.23.0 and earlier

2. Description

2.1 New features

- Using Visual Studio Code with VS Code Debug Extension for Renesas GDB v25.2.1 or later, projects generated with the Smart Configurator can be easily built on VS Code using Ninja.



Please also refer to the following contents.

Renesas VS Code Extensions User Guide

Visual Studio Code - How to Install Renesas Extensions

Visual Studio Code - How to Create, Build, and Debug a Smart Configurator Project for RX

- When using the bus component, there is a warning message for WR# pin. Applicable devices: all RX600, RX700 devices, and RX230, RX231

Components 🚵 🛃 🗟 📻 🗮 茸	Use CS7 (0100 0000h to 01FF FFFFh)				
type filter text	External bus control setting				
🗸 🧀 Startup	ALE pin	WAIT# pin			
 ✓ Generic ⁶/₂ r_bsp ✓ Generic ✓ Tubsp ✓ Drivers ✓ Buses 	└ Use strobe signal (WR1#/BC1# pin)				
	Note: WR0#/WR# cannot be used as another peripheral function				
	Bus priority setting				
Config_BSC	Memory bus 1 (RAM/Extended RAM)	The order of priority is fixed $~~$			



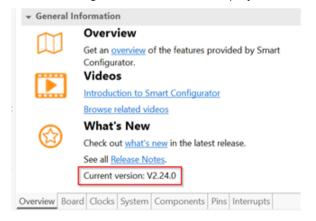
- From this version, the FreeRTOS package update information is displayed. In addition, the FreeRTOS version can be selected.

A newer version of RTOS package is available, y	ou can download it from "Manage RTOS Versions_"	
Toolchain Settings Language: C C++		
Components 🚵 🛃 🎝 🕞 🕀 🛱	Configure	
type filter text	Property Ø Configurations 	Value
✓ → Communications	# Backward Compatibility	🔽 Enable
<pre> r_sci_rx </pre>	# RTOS scheduler	Preemptive
✓ ➢ Middleware	# Port optimised task selection	Disable
 ✓ Generic 	# Maximum number of priorities to the applica	tion t 7
Pr_byteq	# The frequency of the RTOS tick interrupt	(TickType_t) 1000
r wifi da16xxx	# The size of the stack used by the idle task	768
✓ ▷ RTOS	# The total amount of RAM available in the Fre	eRTO! 256
✓ → RTOS Kernel	# The maximum permissible length of name	12
FreeRTOS Kernel	# Use trace facility	🔽 Enable
	e version	
FreeRTOS C 🗱 remov	e CKWARD_COMPAT	IBILITY
✓ → RTOS Library Reset	o default ty.	
LittleFS	Disable: disable backward compatibility.	

- Added magnet sensor (analog output) setting to the RX24T motor component.

Sensor enable	Enable magnet sensor(Analog output)	
	Disable sensor settings	1
	Enable hall sensor	
	Enable encoder and hall sensor	L
Timer Setting	Enable magnet sensor(Digital output)	J
Magnet Sett	Enable magnet sensor(Analog output)	ľ

- Smart Configurator versions are displayed in the "Overview" tab.





RENESAS TOOL NEWS

- If there is a problem downloading from the Renesas server, a warning message appears in the dialog

0				– 🗆 X
FIT Module Download There is a problem with retrieving	g data from Renesas server, p	lease try aga	in later.	Ľ
Title	Document No.	Rev.	Issue date	Select All Deselect All
Filtered: ☑ Show RX Driver Package only				

- A message is displayed in the console view when a dependent component is deleted.

Problems	Console \times	Properties	Smart Browser	Smart Manual				💦 🚮 🕅
Smart Configura	ator Output							
M04050014:	Configuratio	n r_sci_rx i	s removed. Follow	wing dependency	configuration	can be removed	if it is not used:	[r_byteq]

- The Motor component extends magnet sensor with digital output support for other devices. Applicable devices: RX13T, RX23T, RX24T, RX24U, RX66T, RX72M, RX72T

2.2 Issues Fixed

The following issues have been fixed.

- Fixed a problem with the key code setting of the General PWM Timer.
- Fixed problems with RSCI smart card interface mode.

- Fixed a problem that caused the RCR4.RCKSEL bit to be set twice when the real-time clock (RTC) component was combined with the BSP.

- Fixed a problem of displaying the RIIC interrupt priority in error on RX microcontrollers that do not have group interrupts.

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

Smart Configurator for RX V2.24.0 Release Note (the note will be uploaded on January 20) <u>https://www.renesas.com/software-tool/rx-smart-configurator#documents</u>



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 January 20)

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

RENESAS TOOL NEWS: R20TS1089EJ0100 (January 20, 2025, issue)

[Upgrade to Version] e² studio Integrated Development Environment 2025-01

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

3.2 Using CS+

(1) Download the latest Smart Configurator for RX from the URL below and install it (V2.24.0 will be released on January 20).

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

Smart Configurator for RX V2.24.0

(2) On the Windows Start menu, select Programs, Renesas Electronics CS+, and then run the Update Manager (this service will be available from January 20).

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	Jan. 20.25	-	First edition issued	

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