

# Smart Configurator for RZ V1.13.0

## Release Note

### Introduction

Thank you for using the Smart Configurator for RZ.

This document describes the restrictions and points for caution. Read this document before using the product.

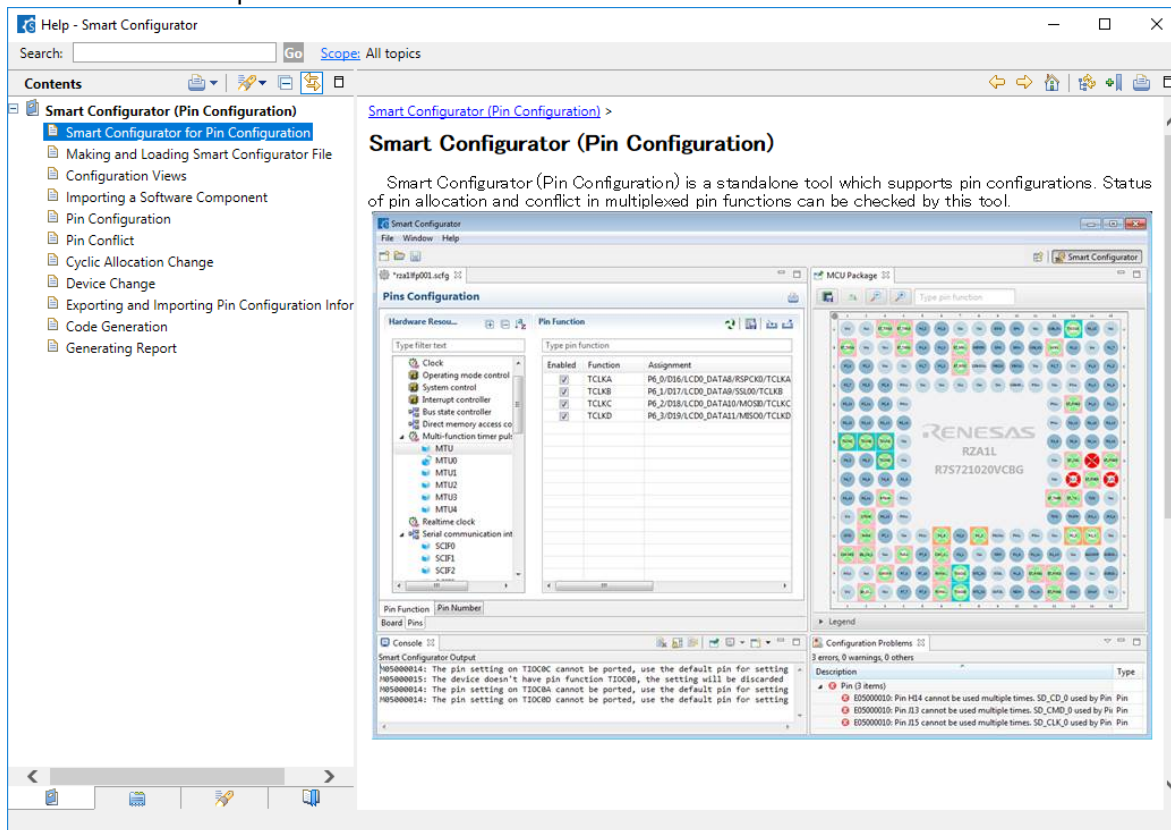
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## 1. Introduction

The Smart Configurator for RZ is a standalone GUI-based tool for setting the assignments of pin functions to pins in the design of hardware specifications. The assignments of pins can be set up from a GUI, which also checks and offers solutions for cases of contention for the same pins by multiplexed functions.

Please refer to "Help Contents" about how to use.



### 1.1 System Requirements

The operating environment is as follows:

#### 1.1.1 PC

- IBM PC/AT compatibles (Windows® 10 64-bit, Windows® 8.1 64-bit)
- Processor: 1 GHz or higher (must support hyper-threading, multi-core CPUs)
- Memory capacity: 2 GB or more recommended.
- Hard disk capacity: 300 MB or more spare capacity
- Display: 1024 x 768 or higher resolution, 65,536 or more colors
- All other necessary software environments in addition to Windows OS
  - Java Runtime Environment

Please note that from V1.11.0, Smart Configurator for RZ will be released as a 64-bit product build. The switch to 64-bit means that it is no longer possible to run this version of the tool on Windows 8.1 and Windows 10 32-bit versions.

## 2. Support List

### 2.1 Supported Devices List

Below is a list of devices supported by the Smart Configurator for RZ V1.13.0.

**Table 1. Supported Devices**

RZ/A1L group	
PIN	Device name
176pin	R7S721020VCBG, R7S721020VCFP, R7S721020VLFP
208pin	R7S721021VCFP, R7S721021VLFP
RZ/A1LU group	
PIN	Device name
176pin	R7S721030VCBG, R7S721030VCFP, R7S721030VLFP
208pin	R7S721031VCFP, R7S721031VLFP
233pin	R7S721031VCBG, R7S722031VLBG
RZ/A1LC group	
PIN	Device name
176pin	R7S721034VCBG
Following documents.	
Manual Name	Document Number
RZ/A1L, RZ/A1LU, RZ/A1LC Group User's Manual: Hardware	R01UH0437EJ0300

RZ/A1H group	
PIN	Device name
256pin	R7S721000VCBG, R7S721000VCFP, R7S721000VLFP
324pin	R7S721001VCBG, R7S721001VLBG
RZ/A1M group	
PIN	Device name
256pin	R7S721010VCBG, R7S721010VCFP, R7S721010VLFP
324pin	R7S721011VCBG, R7S721011VLBG
Following documents.	
Manual Name	Document Number
RZ/A1H, RZ/A1M Group User's Manual: Hardware	R01UH0403EJ0200

RZ/G1M group	
PIN	Device name
831pin	R8A77430
Following documents	
Manual name	Document Number
RZ/G1M User's Manual: Hardware	R01UH0626EJ0100

RZ/G1C group	
PIN	Device name
501pin	R8A77470
Following documents	
Manual name	Document Number
RZ/G1C User's Manual: Hardware	R01UH0695EJ0100

RZ/G1E group	
PIN	Device name
501pin	R8A77450
Following documents	
Manual name	Document Number
RZ/G1E User's Manual: Hardware	R01UH0544EJ0100

RZ/G1H group	
PIN	Device name
831pin	R8A77420
Following documents	
Manual name	Document Number
RZ/G1H User's Manual: Hardware	R01UH0627EJ0100

RZ/G1N group	
PIN	Device name
831pin	R8A77440
Following documents	
Manual name	Document Number
RZ/G1N User's Manual: Hardware	R01UH0628EJ0100

RZ/G2E group	
PIN	Device name
552pin	R8A774C0
Following documents	
Manual name	Document Number
RZ/G2E User's Manual: Hardware	R01UH0848EJ0080

RZ/G2M group	
PIN	Device name
1022pin	R8A774A0
Following documents	
Manual name	Document Number
RZ/G2M User's Manual: Hardware	R01UH0846EJ0080

RZ/G2N group	
PIN	Device name
1022pin	R8A774B0
Following documents	
Manual name	Document Number
RZ/G2N User's Manual: Hardware	R01UH0847EJ0080

RZ/G2H group	
PIN	Device name
1022pin	R8A774E0
Following documents	
Manual name	Document Number
RZ/G Series, 2nd Generation User's Manual: Hardware	R01UH0808EJ0100

RZ/G2L, G2LC group	
PIN	Device name
456pin 551pin 361pin	R9A07G044L (15mm) R9A07G044L (21mm) R9A07G044LC
Following documents	
Manual name	Document Number
RZ/G Series, 2nd Generation User's Manual: Hardware	R01UH0914EJ0041

RZ/V2L group	
PIN	Device name
456pin 551pin	R9A07G054L (15mm) R9A07G054L (21mm)
Following documents	
Manual name	Document Number
RZ/V2L Group User's Manual: Hardware	R01UH0914EJ0041 R01UH0936EJ0040

RZ/G2UL group	
PIN	Device name
361pin 361pin	R9A07G043U (Type-1) R9A07G043U (Type-2)
Following documents	
Manual name	Document Number
RZ/G2UL Group User's Manual: Hardware	R01UH0968EJ0050

## 2.2 New Support

There are no new devices supported in this version.

### 3. Changes

This chapter describes the changes for Smart Configurator for RZ V1.13.0.

#### 3.1 Correction of issues/limitations

No.	Descriptions	RZ/A1	RZ/G1	RZ/G2	RZ/V2
1	<u>Allow individual selection of MTIOC0 pins</u>	-	-	✓	✓
2	<u>Correction of DTSi output file</u>	-	-	✓	✓
3	<u>Fixed an issue where settings may not be saved when the "Next group of pins for the selected resource" button is used</u>	✓	✓	✓	✓
4	<u>Removed pin selections from RZ/G2UL R9A07G043U (Type2) package</u>	-	-	✓	-

✓:Applicable, -:Not Applicable

##### 3.1.1 Allow individual selection of MTIOC0 pins

The pin functions MTIOC0A, MTIOC0B, MTIOC0C and MTIOC0D belonging to the MTU0 group in the Multi-Function Timer Pulse Unit 3 peripheral can now be selected individually.

The screenshot displays the 'Hardware Resource' tree on the left, where 'Multi-Function Timer Pulse Unit 3' is expanded to show 'MTU0'. On the right, the 'Pin Function' table is visible, showing the following configuration:

Enabl...	Group	Function	Assignment
<input checked="" type="checkbox"/>	MTCLK_A	MTCLKA	⚡ P14_0/DISP_DATA15/SSI1_BCK_A/
<input checked="" type="checkbox"/>	MTCLK_B	MTCLKB	⚡ P14_1/DISP_DATA16/SSI1_RCK_A/
<input type="checkbox"/>	MTCLK_C	MTCLKC	⚡ Not assigned
<input type="checkbox"/>	MTCLK_D	MTCLKD	⚡ Not assigned
<input type="checkbox"/>	MTU5_U	MTIC5U	⚡ Not assigned
<input type="checkbox"/>	MTU5_V	MTIC5V	⚡ Not assigned
<input type="checkbox"/>	MTU5_W	MTIC5W	⚡ Not assigned

[Target]

RZ/G2L, RZ/V2L, RZ/G2LC

### 3.1.2 Correction of DTSi output file

The generated DTSi file has been corrected by removing the string “renesas”.

In V1.12.0:

```
&pfc {
  mtclk_pins: mtclk {
    renesas,groups = "mtclka_a", "mtclkb_a";
    renesas,function = "mtclk";
  };
};
&mtclk {
  pinctrl-0 = <&mtclk_pins>;
  pinctrl-names = "default";

  status = "okay";
};
```

In V1.13.0:

```
&pfc {
  mtclk_pins: mtclk {
    groups = "mtclka_a", "mtclkb_a";
    function = "mtclk";
  };
};
&mtclk {
  pinctrl-0 = <&mtclk_pins>;
  pinctrl-names = "default";

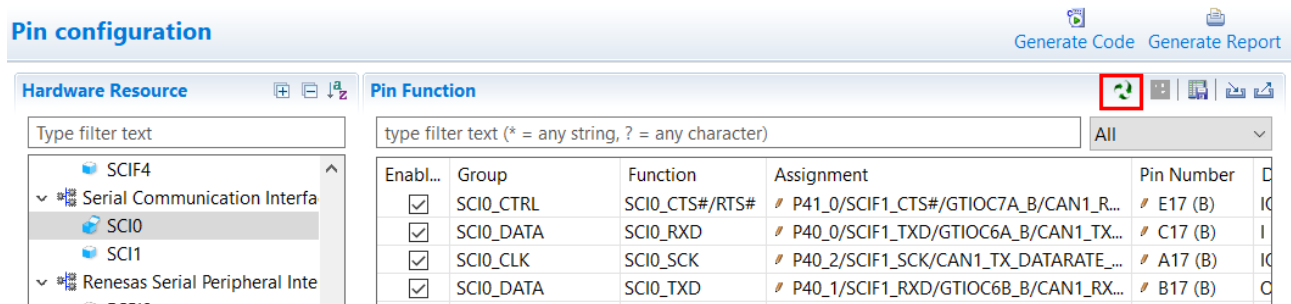
  status = "okay";
};
```

[Target]

RZ/G2L, RZ/G2LC, RZ/G2UL, RZ/V2L

### 3.1.3 Fixed an issue where settings may not be saved when the “Next group of pins for the selected resource” button is used

Fixed an issue where the “Next group of pins for the selected resource” button may not trigger a setting change to be detected when clicked in the Pin Function page.



[Target]

All supported devices.



### 3.1.4 Removed pin selections from RZ/G2UL R9A07G043U (Type2) package

The following pin selections have been removed from the RZ/G2UL R9A07G043U (Type2) package:

Peripheral	Pin Function	Port
Renesas Serial Peripheral Interface	RSPI0_CK	P2_1
	RSPI0_MOSI	P2_2
	RSPI0_MISO	P2_3
	RSPI0_SSL	P5_1
	RSPI2_CK	P11_0
	RSPI2_MOSI	P11_1
	RSPI2_MISO	P11_2
	RSPI2_SSL	P11_3
Interrupt Controller	IRQ0	P02
	IRQ1	P03
	IRQ2	P5_1, P6_2, P14_1
	IRQ3	P6_3, P14_2
	IRQ4	P6_4
Serial Communications Interface	SCIO_SCK	P2_1
	SCIO_TXD	P0_0, P2_2
	SCIO_RXD	P0_1, P2_3
	SCI1_TXD	P15_2
	SCI1_RXD	P17_0
	SCIO_CTS#/RTS#	P5_1
USB	USB1_VBUSEN	P4_0, P5_3
	USB1_OVRCUR	P4_1, P5_4
Multi-Function Timer Pulse Unit 3	MTIOC0A	P3_0
	MTIOC0B	P3_1
	MTIOC0C	P3_2
	MTIOC0D	P3_3
	MTIOC1A	P1_0
	MTIOC1B	P1_1
	MTIOC3A	P4_2
	MTIOC3B	P4_3
	MTIOC3C	P4_4
	MTIOC3D	P4_5
	MTIC5U	P1_2
	MTIC5V	P1_3
	MTIC5W	P1_4

[Target]

RZ/G2UL R9A07G043U (Type2)

#### 4. List of [Notes] RENESAS TOOL NEWS

[Notes] Below is a list of notifications delivered by RENESAS TOOL NEWS.

Issue date	Document No.	Description	Applicable MCUs	Fixed version
2019/12/16	<a href="#">R20TS0520</a>	Incorrect display of peripheral function names "Camera Serial Interface" and "SPI Multi I/O Bus Controller" on pin function tab	RZ/G2E	V1.8.0
2021/7/16	<a href="#">R20TS0739</a>	Missing pins for I2C0, I2C3 and I2C5 of RZ/G2M	RZ/G2M	V1.10.1

## 5. Points for Limitation

There are no limitations for Smart Configurator for RZ V1.13.0.

## 6. Point for Caution

This chapter describes the cautions for Smart Configurator for RZ V1.13.0.

### 6.1 List of Caution

No.	Descriptions	RZ/A1	RZ/G1	RZ/G2	RZ/V2
1	<a href="#">Functions not supported by RZ/A1 package</a>	✓	-	-	-
2	<a href="#">Projects created using Smart Configurator for RZ V1.3.0 and before</a>	-	✓	-	-

✓ :Applicable, -:Not Applicable

## 6.2 Details of Caution

### 6.2.1 Functions not supported by RZ/A1 package

RZ/A1 package does not support code generation and board configuration.

[Target]

RZ/A1H, A1L, A1LC, A1LU, A1M

### 6.2.2 Projects created using Smart Configurator for RZ V1.3.0 and before

Projects created using Smart Configurator for RZ V1.3.0 and before do not have [Group] information. Please confirm [Group] after opening those projects.

[Workaround]

None.

[Target]

RZ/G1C, G1E, G1H, G1M, G1N

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.6.0	July.22.19	-	First edition issued
1.7.0	October.21.19	4	Updated information for Smart Configurator for RZ V1.7.0 - Added new device support for RZ/G2N
1.7.1	December.20.19	8, 9	Added new limitation of 5.2.1
1.8.0	August.05.20	7 8 11	Updated information for Smart Configurator for RZ V1.8.0 - Added new device support for RZ/G2H - Added correction of issues/limitations 3.2.1 and 3.2.2 - Removed limitation of 5.2.1
1.9.0	April.20.21	6,7	Updated information for Smart Configurator for RZ V1.9.0 - Added new device support for RZ/G2L, G2LC
1.10.0	July.20.21	6,7 8	Updated information for Smart Configurator for RZ V1.10.0 - Added new device support for RZ/V2L - Added new for limitation of 5.2.1
1.10.1	August.5.21	7 8	Updated information for Smart Configurator for RZ V1.10.1 - Added correction of issues/limitations 3.2.1 - Removed limitation of 5.2.1
1.11.0	December.20.21	2 6,7 8	Updated information for Smart Configurator for RZ V1.11.0 - Updated system requirements in 1.1.1 - Added new device support for RZ/G2UL in 2.2.1 - Added correction of issues/limitations 3.2.1, 3.2.2 and 3.2.3
1.12.0	January.20.22	7 – 11 13	Updated information for Smart Configurator for RZ V1.12.0 - Added correction of issues/limitations 3.1.1 - 3.1.7 - Added new limitation of 5.2.1
1.13.0	March.22.22	7 – 9	Updated information for Smart Configurator for RZ V1.13.0 - Added correction of issues/limitations 3.1.1 - 3.1.4

## 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 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 system-evaluation test for the given product.

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