# [Notes]

## e<sup>2</sup> studio Smart Configurator Plug-in,

R20TS0696ES0100 Rev.1.00 May. 16, 2021

## Smart Configurator for RX

### Outline

When using the products in the title, note the following points.

1. When using PORT component and configuring PORTC multiplexed pins as input

### 1. When using PORT component and configuring PORTC multiplexed pins as input

- 1.1 Applicable Products
  - > e<sup>2</sup> studio 6.2 (Smart Configurator Plug-in V1.2.0) or later
  - Smart Configurator for RX V1.2.0 or later

### 1.2 Applicable Devices

 RX family: RX130 (80/64/48 pins) and RX230/1 (64/48 pins) Group

### 1.3 Details

When using PORT component and configuring PORTC multiplexed pins as input, the generated code for PDR register is wrong, its bit 0 should be set to value 0 instead of value 1.

The affected pins are as below:

PC0 and PC1 on RX130 (80/64 pins), RX230/1 (64 pins) which are multiplexed with PB6 and PB7
PC0, PC1, PC2 and PC3 on RX130 (48 pins) and RX230/1 (48 pins) which are multiplexed with PB0, PB1, PB3 and PB5

### 1.4 Condition

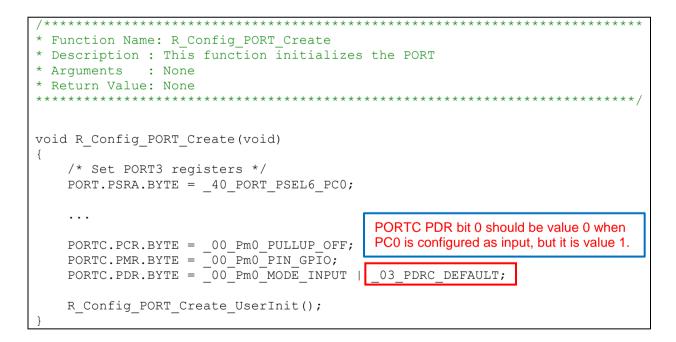
Below are the steps to reproduce the issue:

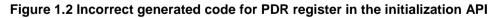
- (1) Creating Smart configurator project on the affected device mentioned above
- (2) Add PORT component from the software component page
- (3) Enable PORTC and configure the pins mentioned above as input (see Figure 1.1)
- (4) Click "Generate Code" and check PDR register generated code in the initialization API (see Figure 1.2)

### RENESAS TOOL NEWS

Software component c	🔋 Generate Code	👜 Generate Report				
Components 🖓 🕒 🕀 🖶 🖛	Configure		^			
10 To	Port selection PORTC					
✓ Startup	Apply to all					
<ul> <li>✓ E Generic</li> <li> <sup>•</sup> r_bsp      <li>✓ E Drivers         <sup>•</sup> E I/O Ports     </li> <li><sup>•</sup> Config_PORT     </li> </li></ul>	Unused GPIO In Out Pull-up CMOS out	put ~	Output 1			
	PC0 O Unused GPIO  In O Out Pull-up CMOS out	put 🗸	Output 1			
Conng_ronn	DC1					
	PC1 ● Unused GPIO ○ In ○ Out □ Pull-up CMOS out	put 🗸	Output 1			
	PC2 ● Unused GPIO ○ In ○ Out □ Pull-up CMOS out	put 🗸	Output 1			
~	<pre>PC3 </pre>		> ×			
Overview Board Clocks System Components Pins Interrupts						

#### Figure 1.1 Configure PC0 as input for PORT component (RX130 64 pin)





### 1.5 Workaround

Manually update corresponding bit value from 1 to 0 for this PDR register generated code, e.g. for the PC0, macro name should be updated from "\_03\_PDRC\_DEFAULT" to "\_02\_PDRC\_DEFAULT" and its value should also be updated from "0x03U" to "0x02U" in the "r\_cg\_port.h" generated file.

### 1.6 Schedule for Fixing the Problem

This problem will be fixed in the following versions. (Scheduled to be released in July 2021)

- e<sup>2</sup> studio 2021-07
- Smart Configurator for RX V2.10.0

### **Revision History**

		Description	
Rev.	Date	Page	Summary
1.00	May.16.20	-	First edition issued

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TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan www.renesas.com

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