
[Notes]

CS+ Code Generator for RX,
e² studio Code Generator Plug-in,
AP4 Coding Assistance Tool for RX

R20TS0523EJ0100
Rev.1.00
Dec. 16, 2019

Outline

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

1. When using the real-time clock in calendar count mode
2. When using the 12-bit A/D converter in Single Scan Mode

1. When Using the Real-time Clock in Calendar Count Mode

1.1 Applicable Products

- CS+ Code Generator for RX V1.11.00 (CS+ for CC V4.01) or later
- Code Generator plug-in V2.5.0 (e² studio V5.2.0) and later
- AP4 for RX V1.11.00 or later

1.2 Applicable Devices

- RX family:
RX651, RX65N groups

1.3 Details

When using the calendar API to set the counter value while using the real-time clock in calendar count mode, the statement for waiting the completion of reset operation is incorrect and may cause an infinite loop.

Error location

```
/*
 * Function Name: R_RTC_Set_CalendarCounterValue
 * Description : This function set RTC calendar counter value.
 * Arguments   : counter_write_val -
 *                 counter write value
 * Return Value : None
 */
void R_RTC_Set_CalendarCounterValue(rtc_calendarcounter_value_t counter_write_val)
{
    uint32_t rw_count;
    volatile uint32_t dummy;

    /* Stop all counters */
    RTC.RCR2.BIT.START = 0U;
    while (0U != RTC.RCR2.BIT.START)
    {
        /* Ensure the clock is stopped while configuring it.*/
    }

    /* Execute RTC software reset */
    RTC.RCR2.BIT.RESET = 1U;
    while (1U != RTC.RCR2.BIT.RESET) ← Need to wait for RESET bit value
    {                                     to become 0 instead of 1.
        /* Wait for the reset to complete */
    }
    ...
}
```

1.4 Workaround

Manually change the checking value in the while statement from 1 to 0.

Note: When code is generated again, generated code returns to the state before modification. Therefore, modify the source file each time you generate code.

- Source file: "r_cg_rtc.c"
- Function: "void R_RTC_Set_CalendarCounterValue (rtc_calendarcounter_value_t counter_write_val)"

Workaround

```
/*
 * Function Name: R_RTC_Set_CalendarCounterValue
 * Description : This function set RTC calendar counter value.
 * Arguments   : counter_write_val -
 *                 counter write value
 * Return Value : None
 */
void R_RTC_Set_CalendarCounterValue(rtc_calendarcounter_value_t counter_write_val)
{
    uint32_t rw_count;
    volatile uint32_t dummy;

    /* Stop all counters */
    RTC.RCR2.BIT.START = 0U;
    while (0U != RTC.RCR2.BIT.START)
    {
        /* Ensure the clock is stopped while configuring it.*/
    }

    /* Execute RTC software reset */
    RTC.RCR2.BIT.RESET = 1U;
    while (0U != RTC.RCR2.BIT.RESET) // Change the RESET bit checking
    {                                value from 0 to 1.
        /* Wait for the reset to complete */
    }
    ...
}
```

1.5 Schedule for Fixing the Problem

There is no schedule for fixing this problem.

2. When Using the 12-bit A/D Converter in Single Scan Mode

2.1 Applicable Products

- CS+ Code Generator for RX V1.03.00 (CS+ for CC V3.00) or later
- Code Generator plug-in V1.1.2 (e² studio V3.1.0) and later
- AP4 for RX V1.03.00 or later

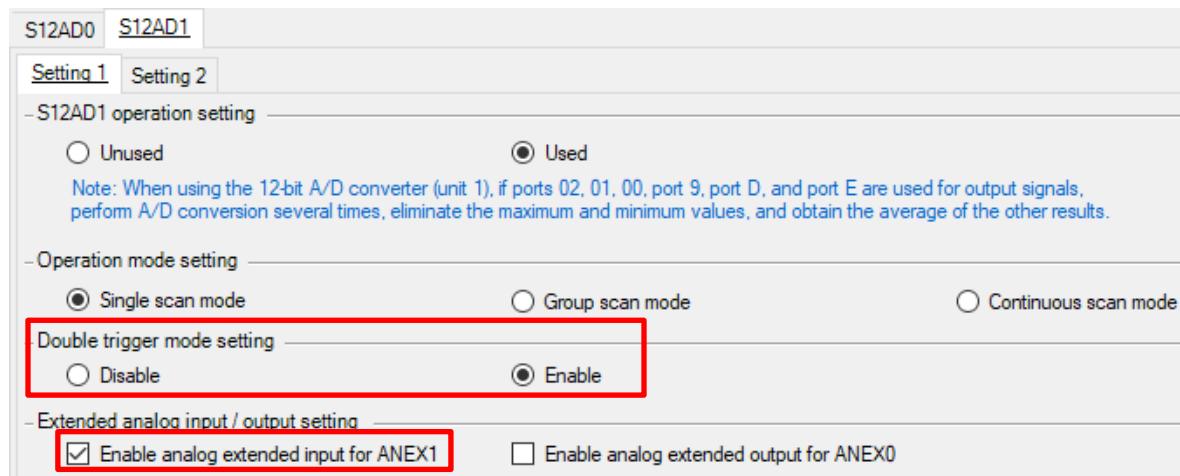
2.2 Applicable Devices

- RX family:
RX64M, RX651, RX65N, and RX71M groups

2.3 Details

When using Double trigger mode on Single Scan Mode component of the 12-bit A/D converter, “Enable analog extended input for ANEX1” is still available for configuration even though it cannot be used simultaneously.

Error location



2.4 Workaround

Do not select [Enable analog extended input for ANEX1] when using double trigger mode.

2.5 Schedule for Fixing the Problem

There is no schedule for fixing this problem.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Dec.16.19	-	First edition issued

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