

[Notes]

R20TS0622EC0100  
Rev.1.00  
Oct. 01, 2020

CS+ Code Generator for RH850,  
AP4 Coding Assistance Tool for RH850

Outline

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

1. When using Clocked Serial Interface H
2. When using Clocked Serial Interface G

1. When using Clocked Serial Interface H

1.1 Applicable Products

- CS+ Code Generator for RH850 V1.00.00 (CS+ for CC V4.00) or later
- AP4 for RH850 V1.01.00 or later

1.2 Applicable Devices

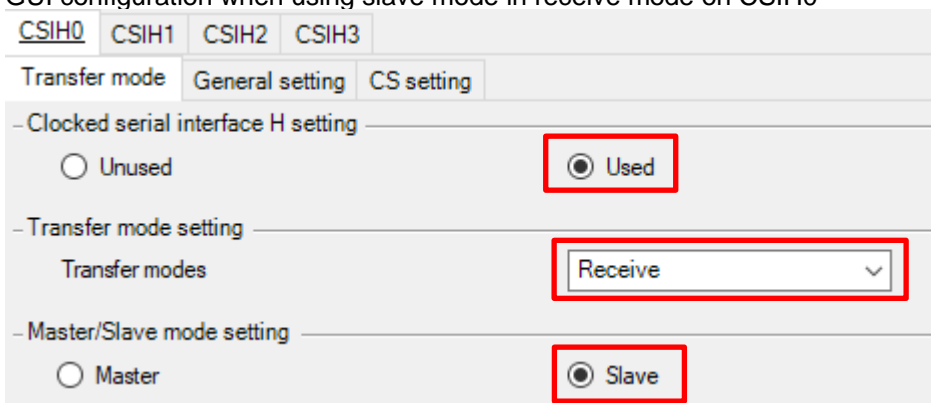
RH850 family: RH850/F1K group

1.3 Details

When using CSIH with slave mode and receive mode or transmit/receive mode selected on the following peripherals, transmission processing will not work from the second time because the variable of receive count initialization is incorrect.

- RH850/F1K:  
CSIH0, CSIH1, CSIH2, CSIH3

■ GUI configuration when using slave mode in receive mode on CSIH0



## 1.4 Workaround

Manually modify the variable name of receive count from “g\_<csihn>\_tx\_num” to “g\_<csihn>\_rx\_num” in the following source file <sup>(Note)</sup>. <csihn> varies depending on the selected peripheral.

- Source file: “r\_cg\_csih.c”.
- Function: “MD\_STATUS R\_<CSIHn>\_Slave\_Receive (uint16\_t\* rx\_buf, uint16\_t rx\_num)”

Note: If code is generated again, the previous state is restored. Modification is necessary each time you perform code generation.

The following is an example of the required modification when <CSIHn> is CSIH0. Manually modify the wrong code in red to correct code in blue.

## Before modification

```
MD_STATUS R_CSIH0_Slave_Receive(uint16_t* rx_buf, uint16_t rx_num)
{
    MD_STATUS status = MD_OK;
    if (rx_num < 1U)
    {
        status = MD_ARGERROR;
    }
    else
    {
        g_csih0_rx_total_num = rx_num;
        gp_csih0_rx_address = rx_buf;
        g_csih0_tx_num = 0U;
    }

    return (status);
}
```

## After modification

```
MD_STATUS R_CSIH0_Slave_Receive(uint16_t* rx_buf, uint16_t rx_num)
{
    MD_STATUS status = MD_OK;
    if (rx_num < 1U)
    {
        status = MD_ARGERROR;
    }
    else
    {
        g_csih0_rx_total_num = rx_num;
        gp_csih0_rx_address = rx_buf;
        g_csih0_rx_num = 0U;
    }

    return (status);
}
```

## 1.5 Schedule for Fixing the Problem

This problem will be fixed in a later version.

## 2. When using Clocked Serial Interface G

### 2.1 Applicable Products

- CS+ Code Generator for RH850 V1.00.00 (CS+ for CC V4.00) or later
- AP4 for RH850 V1.01.00 or later

### 2.2 Applicable Devices

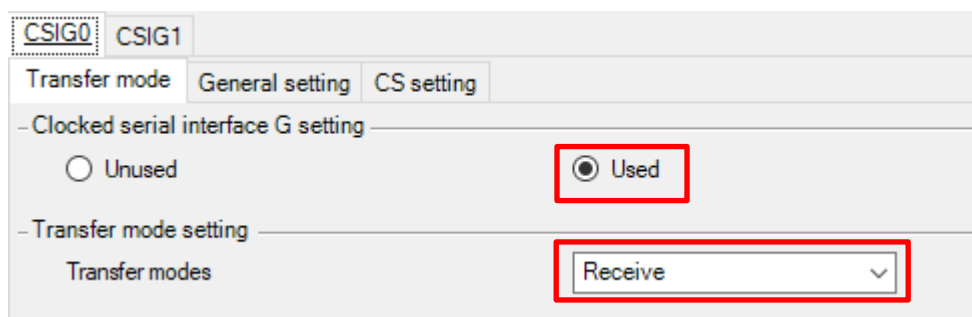
RH850 family: RH850/F1KM group

### 2.3 Details

When using CSIG and receive mode or transmit/receive mode selected on the following peripherals, transmission processing will not work from the second time because the variable of receive count initialization is incorrect.

- RH850/F1K: 100-pin products  
CSIG0
- RH850/F1K: 144-pin, 176-pin products  
CSIG0, CSIG1

#### ■ GUI configuration when using receive mode on CSIG0



### 2.4 Workaround

Manually modify the variable name of receive count from “g\_<csign>\_tx\_num” to “g\_<csign>\_rx\_num” in the following source file <sup>(Note)</sup>. <csign> varies depending on the selected peripheral.

- Source file: “r\_cg\_csig.c”.
- Function: “MD\_STATUS R\_<CSIGn>\_Receive (uint16\_t\* rx\_buf, uint16\_t rx\_num)”

Note: If code is generated again, the previous state is restored. Modification is necessary each time you perform code generation.

The following is an example of the required modification when <CSIGn> is CSIG0. Manually modify the wrong code in red to correct code in blue.

Before modification

```

MD_STATUS R_CSIG0_Receive(uint16_t* rx_buf, uint16_t rx_num)
{
    MD_STATUS status = MD_OK;
    if (rx_num < 1U)
    {
        status = MD_ARGERROR;
    }
    else
    {
        g_csig0_rx_total_num = rx_num;
        gp_csig0_rx_address = rx_buf;
        g_csig0_tx_num = 0U;
        .....
    }

    return (status);
}

```

After modification

```

MD_STATUS R_CSIG0_Receive(uint16_t* rx_buf, uint16_t rx_num)
{
    MD_STATUS status = MD_OK;
    if (rx_num < 1U)
    {
        status = MD_ARGERROR;
    }
    else
    {
        g_csig0_rx_total_num = rx_num;
        gp_csig0_rx_address = rx_buf;
        g_csig0_rx_num = 0U;
        .....
    }

    return (status);
}

```

## 2.5 Schedule for Fixing the Problem

This problem will be fixed in a later version.

**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Oct.01.20	-	First edition issued

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