[Notes]
Smart Configurator for RH850

R20TS0576EC0100
Rev.1.00
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Outline

When using Smart Configurator for RH850, note the following point.

1. When using CSI master and CSI slave

1. When Using CSI Master and CSI Slave

1.1 Applicable Products

Smart Configurator for RH850 V1.1.0 or later

1.2 Applicable Devices

RH850 family: RH850/F1KM group

- RH850/F1KM-S1 (48-pin, 64-pin, 80-pin, and 100-pin products)
- RH850/F1KM-S4 (100-pin, 144-pin, 176-pin, and 233-pin products)

1.3 Details

When using CSI master or CSI slave as receive mode or transmit/receive mode on the following peripherals, transmission process does not work from the second time because the variable of receive count initialization is wrong.

- RH850/F1KM-S1: 48-pin, 64-pin products

  CSIG0, CSIH0
- RH850/F1KM-S1: 80-pin products

  CSIG0, CSIH0, CSIH1, CSIH2
- RH850/F1KM-S1: 100-pin products

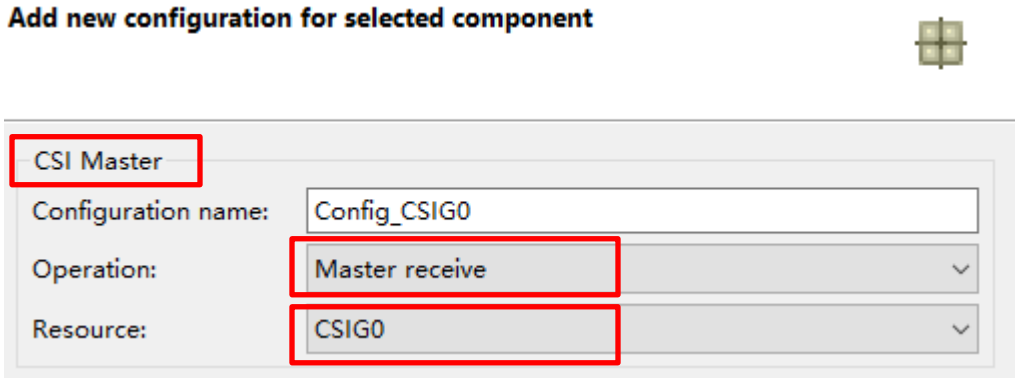
  CSIG0, CSIH0, CSIH1, CSIH2, CSIH3
- RH850/F1KM-S4: 100-pin products

  CSIG0, CSIH0, CSIH1, CSIH2, CSIH3
- RH850/F1KM-S4: 144-pin products

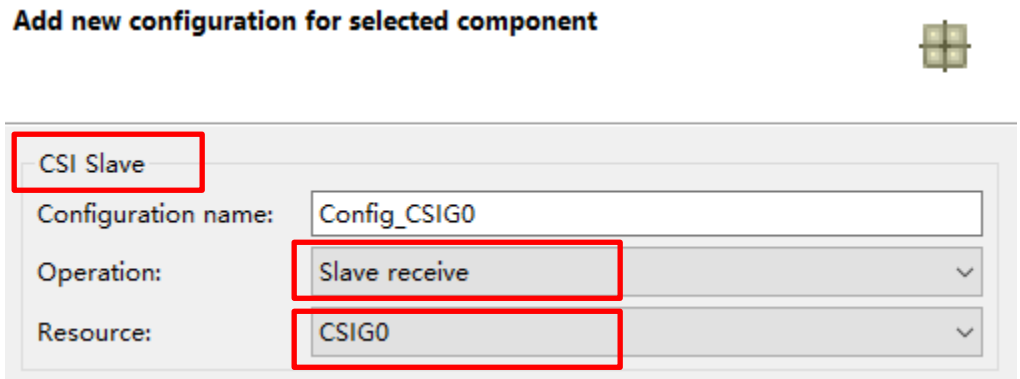
  CSIG0, CSIG1, CSIH0, CSIH1, CSIH2, CSIH3
- RH850/F1KM-S4: 176-pin, 233-pin products

  CSIG0, CSIG1, CSIG2, CSIG3, CSIH0, CSIH1, CSIH2, CSIH3

- GUI configuration when using CSI master as receive mode on CSIG0



- GUI configuration when using CSI slave as receive mode on CSIG0



1.4 Workaround

Manually modify the variable name of receive count from “g_<*csign*>_tx_num” to “g_<*csign*>_rx_num” in the following source file (Note). <*csign*> varies depending on the selected resource.

- Source file: “<*Configuration-name*>.c”.
- Function: “MD_STATUS R_<*Configuration-name*>_ 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 <*Configuration-name*> is Config_CSIG0 in the RH850/F1KM group. Manually modify the wrong code in red to correct code in blue.

Before modification

```
MD_STATUS R_Config_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_Config_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);
}
```

1.5 Schedule for Fixing the Problem

This problem will be fixed in a later version.

Revision History

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

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