

[Notes]

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Rev.1.00

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## Smart Configurator for RH850

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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

**Add new configuration for selected component**



<b>CSI Master</b>	
Configuration name:	Config_CSIG0
Operation:	Master receive
Resource:	CSIG0

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

**Add new configuration for selected component**



<b>CSI Slave</b>	
Configuration name:	Config_CSIG0
Operation:	Slave receive
Resource:	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 <sup>(Note)</sup>. <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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