

## Note on Using the Renesas Peripheral Driver Library for the RX62G and RX62T groups and the Peripheral Driver Generator

When using the Renesas Peripheral Driver Library for the RX62G and RX62T groups and the Peripheral Driver Generator, take note of the problem regarding the following point.

- Using the serial communications interfaces (SCIb)
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### 1. Product and Versions Concerned

- Renesas Peripheral Driver Library V.1.10 for the RX62G and RX62T groups
- Peripheral Driver Generator V.2.09

### 2. Description

The following notes apply when using the serial communications interfaces (SCIb).

#### 2.1 Clearing of error flags by the R\_SCI\_Receive and R\_PG\_SCI\_StartReceiving\_C functions

##### (1) Description

When the following functions are called, they do not clear error flags which they are supposed to clear.

- For the Renesas Peripheral Driver Library  
R\_SCI\_Receive function
- For the Peripheral Driver Generator  
R\_PG\_SCI\_StartReceiving\_C function

##### (2) Workaround

Dummy read the serial status register (SSR) before calling the R\_SCI\_Receive function or R\_PG\_SCI\_StartReceiving\_C function.

In the case of the Renesas Peripheral Driver Library, taking SCI0 as an example, the code is as follows.

```
-----  
/* start receiving */  
dummy = SCI0.SSR.BYTE;    <- Dummy read the SSR  
R_SCI_Receive(  
    0,  
    PDL_NO_DATA,  
    SCI0ReceiveBuffer,  
    4,  
    SCI0RxFunc,  
    SCI0ErrFunc  
);  
-----
```

In the case of the Peripheral Driver Generator, taking SCI0 as an example, the code is as follows.

```
-----  
/* start receiving */  
dummy = SCI0.SSR.BYTE;    <- Dummy read the SSR  
R_PG_SCI_StartReceiving_C0(data, count);  
-----
```

## 2.2 Clearing of error flags by the R\_SCI\_Control function

### (1) Description

Reception error flags might not be cleared even though the PDL\_SCI\_CLEAR\_RECEIVE\_ERROR\_FLAGS option is designated for the R\_SCI\_Control function of the Renesas Peripheral Driver Library.

Note that this is not applicable to the Peripheral Driver Generator since the generator does not support an option for clearing of the reception error flags.

### (2) Workaround

Dummy read the serial status register (SSR) before calling the R\_SCI\_Control function.

In the case of SCI0, the code is as follows.

```
-----  
/* clearing the reception error flags */  
dummy = SCI0.SSR.BYTE;    <- Dummy read SSR  
R_SCI_Control(0, PDL_SCI_CLEAR_RECEIVE_ERROR_FLAGS);  
-----
```

## 2.3 A status flag and the R\_SCI\_GetStatus function

### (1) Description

Bit 0 of the status flags does not reflect the level of the RxD pin correctly following a call of the R\_SCI\_GetStatus function of the Renesas Peripheral Driver Library.

Note that this is not applicable to the Peripheral Driver Generator since the generator does not support obtaining the level on the RxD pin.

### (2) Workaround

Obtain the value corresponding to the level by reading the port register (PORT) of the pin being used as RxD.

## 3. Schedule for Fixing the Problem

This problem will be fixed in a later revision of the product.

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