

## A Note on Using Peripheral Driver Generator V.2.01

When you use Peripheral Driver Generator V.2.01, take note of the following problem:

- With capturing values of the timer general registers (TGRs) in the multifunction timer pulse unit 2 (MTU2)
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### 1. Description

In Peripheral Driver Generator V.2.01, if you make the setting for using the multifunction timer pulse unit 2 (MTU2) of an MCU of the RX62N group, a function for capturing values of the timer general registers (TGRs), `R_PG_Timer_GetTGR_MTU_Um_Cn`, is generated for each  $m$  and  $n$ . Here,  $m$ , a unit number, is 0 or 1; and  $n$ , a channel number, is 0, 1, 2, 3, . . . , or 11.

To the function for channel  $n$ , any of the following is passed as one of its arguments:

- (1) Corresponding to a TGR that exists on channel  $n$  and whose value is captured:  
a pointer pointing to the area where the value of the TGR is stored
- (2) Corresponding to a TGR that exists on channel  $n$  and whose no value is captured:  
a zero
- (3) Corresponding to a TGR that does not exist on channel  $n$ :  
a zero

For details of this function, see the RX62N Group Peripheral Driver Generator Reference Manual.

Here, the following problem arises: if a 0 is passed as the argument in (2), the value of the TGR in (1) cannot be captured. (If a 0 is passed only as the argument in (3), this problem does not arise.)

## 2. Example

When the value of timer general register A (TGRA) in channel 0 is captured:

```
-----  
uint16_t tgr_a;  
R_PG_Timer_GetTGR_MTU_U0_C0(  
    &tgr_a, /* argument in section 1(1) */  
    0,     /* argument in section 1(2) */  
    0,     /* argument in section 1(2) */  
    0,     /* argument in section 1(2) */  
    0,     /* argument in section 1(2) */  
    0      /* argument in section 1(2) */  
);  
-----
```

## 3. Workaround

Do not pass a 0 to the function as the argument for a TGR that exists in the channel involved, but pass a pointer for storing the value.

Example:

```
-----  
uint16_t tgr_a, tgr_b, tgr_c, tgr_d, tgr_e, tgr_f;  
R_PG_Timer_GetTGR_MTU_U0_C0(  
    &tgr_a,  
    &tgr_b,  
    &tgr_c,  
    &tgr_d,  
    &tgr_e,  
    &tgr_f  
);  
-----
```

## 4. Schedule of Fixing the Problem

We plan to fix this problem in Peripheral Driver Generator V.2.02.

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