

## Note on Using Renesas Peripheral Driver Library for RX62N/RX621 Groups and Peripheral Driver Generator - -With Using EXDMA Controller (EXDMAC) of RX62N/RX621 Groups--

When using Renesas Peripheral Driver Library for the RX62N/RX621 groups and Peripheral Driver Generator, take note of the following problem:

- With Using EXDMA Controller (EXDMAC) of RX62N/RX621 Groups
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### 1. Products and Versions Concerned

- RX62N, RX621 Group Renesas Peripheral Driver Library V.1.02
- Peripheral Driver Generator V.2.01 and later

### 2. Description

If you use the R\_EXDMAC\_Create and R\_EXDMAC\_Destroy functions of the above peripheral driver library or the R\_PG\_EXDMAC\_Set\_Cn and R\_PG\_EXDMAC\_StopModule\_Cn functions of the above peripheral driver generator, not the module stop of the EXDMAC controller, but the DMA controller (EDMAC) for the Ethernet controller is lifted.

As a result, even if you use the R\_EXDMAC\_Create and R\_EXDMAC\_Destroy functions or the R\_PG\_EXDMAC\_Set\_Cn and R\_PG\_EXDMAC\_StopModule\_Cn functions, you cannot make any setting of the EXDMAC because the module stop of the EXDMAC is not yet lifted.

### 3. Workarounds

Ways how to avoid this problem are described below.

#### 3.1 For Peripheral Driver Library

(1) When R\_EXDMAC\_Create function used:

Before making a call to the R\_EXDMAC\_Create function, clear the MSTPCRA.MSTPA29 bit to 0.

And, if the EDMAC is not used, set the MSTPCRB.MSTPB15 bit to 1 after making a call to the R\_EXDMAC\_Create function.

(2) When R\_EXDMAC\_Destroy function used:

After making a call to the R\_EXDMAC\_Destroy function, set the MSTPCRA.MSTPA29 bit to 1.

And, if the EDMAC is not used, also set the MSTPCRB.MSTPB15 bit to 1 after making a call to the R\_EXDMAC\_Destroy function.

### **3.2 For Peripheral Driver Generator**

(1) When R\_PG\_EXDMAC\_Set\_Cn function used:

Before making a call to the R\_PG\_EXDMAC\_Set\_Cn function, clear the MSTPCRA.MSTPA29 bit to 0.

And, if the EDMAC is not used, set the MSTPCRB.MSTPB15 bit to 1 after making a call to the R\_PG\_EXDMAC\_Set\_Cn function.

(2) When R\_PG\_EXDMAC\_StopModule\_Cn function used:

After making a call to the R\_PG\_EXDMAC\_StopModule\_Cn function, set the MSTPCRA.MSTPA29 bit to 1.

And, if the EDMAC is not used, also set the MSTPCRB.MSTPB15 bit to 1 after making a call to the R\_PG\_EXDMAC\_StopModule\_Cn function.

### **4. Schedule of Fixing Problem**

We plan to fix this problem in a version published later.

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