

RENESAS TOOL NEWS on May 16, 2014: 140516/tn6

## Renesas Peripheral Driver Library for RX630 Group Revised to V.1.20

We have revised Renesas Peripheral Driver Library for RX630 Group from V.1.10 to V.1.20.

For an overview of the product, go to:

<https://www.renesas.com/driver/rpdl>

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### 1. Descriptions of Revision

#### 1.1 Options and functions added

Options and functions are added or modified as shown in (1) through (4) below so that the realtime clock (RTC) module can continue counting during warm start processing.

##### (1) Addition and Modification of Options in Clock Generation Circuit

###### Setting Function Corresponding to RTC Clock Source Settings

A new argument (tenth argument) has been added to the clock generation circuit setting function (R\_CGC\_Set) with the option to set the "Sub-clock oscillator waiting time".

In addition, the "RTC Count source selection" option has been added to the second argument of the function.

The clock setting processes for cold start and warm start have been modified.

##### (2) Addition of Option in Clock Generation Circuit Control Function

###### Corresponding to RTC Clock Source Settings

The "RTC initialization control" option has been added to the third argument of the clock generation circuit control function (R\_CGC\_Control).

##### (3) Deletion of Options from RTC Generation Function

The "RTC use control" option, which is used when the RTC is not used, and the source selection option "Count source selection"

have been deleted from the first argument of the RTC creation function (R\_RTC\_Create).

(4) Addition of RTC Creation Function for Warm Start

A new RTC creation function (R\_RTC\_CreateWarm) has been added to be used for warm start.

(5) Addition of Parameter in Exception Handler Configuration Function

A parameter for the access exception handler has been added into the exception handler configuration function (R\_INTC\_CreateExceptionHandlers function).

(6) Modification of Clock Switching Option for Exit from Sleep Mode in Low Power Consumption Function (LPC)

The "Sleep mode return clock source switching" option of the first argument in the LPC control function (R\_LPC\_Control), which is used to switch the clock source upon exiting from the sleep mode, has been modified so that no default value is set for the argument.

(7) Addition of Option in 16-Bit Timer Pulse Unit (TPUa) Creation Function

The "Timer start/stop" option has been added to the second argument of the TPUa creation function (R\_TPU\_Create).

(8) Modification and Addition of TPUa Control Functions

The TPUa control function (R\_TPU\_Control) has been changed to the channel control function (R\_TPU\_ControlChannel).

A new function for controlling the unit (R\_TPU\_ControlUnit) has been added.

## 1.2 Addition of library with debugging information

A library with debugging information has been added. This library enables the debug of the Renesas Peripheral Driver at the source-code level.

## 1.3 Problem fixed

The following problem has been fixed.

- With Using an External Clock in the 16-bit Timer Pulse Unit (TPUa)

For details of the problem, see RENESAS TOOL NEWS Document No. 130901/tn3 at:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=130901tn3>

## 1.4 Other changes

For the other changes, refer to the Revision History in the Renesas Peripheral Driver Library User's Manual.

## 2. Precaution

There is a restriction on this product. For details, refer to the following URL:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=140516tn2>  
This site will be opened on May 20, 2014.

## 3. Obtaining Library

Download the sample program of Renesas Peripheral Driver Library for RX630 Group from the following web page:

[https://www.renesas.com/mw/rpdl\\_app\\_notes](https://www.renesas.com/mw/rpdl_app_notes)

Document Title: RX630 Group Renesas Peripheral Driver Library

This sample program will be published on this web page on May 20, 2014.

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