RENESAS Tool News

Renesas Peripheral Driver Library for RX63N and RX631 Group Revised to V.1.20.

We have revised Renesas Peripheral Driver Library for RX63N and RX631 Group from V.1.10 to V.1.20.

For the overview of the product, go to:
https://www.renesas.com/driver/rpdl

1. Descriptions of Revision

1.1 Conformed to user's manual Rev.1.70 for RX63N and RX631 group of MCUs

The library functions have been updated conforming to the specifications of the user's manual Rev.1.70. (see NOTE)

NOTE: Renesas Peripheral Driver Library does not support the RX63N and RX631 group of MCUs in the 64-pin TFLGA package.
In addition, it does not support the parallel data capture unit (PDC).

1.2 Options and functions added

Options and functions are added or modified as shown in (1) through (3) below so that the realtime clock (RTC) module can continue counting during warm start processing.

(1) Modification of Options in Clock Generation Circuit Setting Function Corresponding to RTC Clock Source Setting
The specifications of the "RTC Count source selection" option in the second argument of the clock generation circuit setting function (R_CGC_Set) have been modified.
In addition, the clock setting processes for cold start and warm start have been modified.

(2) Modification of Option in Clock Generation Circuit Control Function

Corresponding to RTC Clock Source Setting
The initialization process specified by the "RTC initialization control" option in the third argument of the clock generation circuit control function (R_CGC_Control) has been modified.

(3) 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.

(4) 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).

(5) 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.

1.3 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.

1.4 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

1.5 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 RX63N and RX631 Group from the following web page:

https://www.renesas.com/mw/rpdl_app_notes

Document Title: RX63N Group, RX631 Group Renesas Peripheral Driver Library

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