

RENESAS TOOL NEWS on May 16, 2014: 140516/tn4

Renesas Peripheral Driver Library for RX220 Group Revised to V.1.10

We have revised Renesas Peripheral Driver Library for RX220 Group from V.1.01 to V.1.10.

For an overview of the product, go to:

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

1. Descriptions of Revision

1.1 Conformed to user's manual Rev.1.10 for RX220 group of MCUs

The library functions have been updated conforming to the specifications of the latest user's manual Rev.1.10.

1.2 Options and functions added

Options and functions are added or modified as shown in (1) through (5) 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 (eighth 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.

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

(2) Addition and Modification of Options 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).

In addition, the following options have been deleted from the second argument.

- HOCO frequency option

"High-speed on-chip oscillator frequency control"

- Main clock oscillator type 1 option

"Main clock oscillator drive type 1 control"

- Main clock oscillator type 2 option

"Main clock oscillator drive type 2 control"

- Sub-clock oscillator drive control option

"Sub-clock oscillator drive control"

(3) Addition of RTCOUT Frequency Select Option in RTC Creation Function

The "Clock RTCOUT output period Select" option, which is used to select the frequency of the RTCOUT output clock, has been added to the first argument of the RTC creation function (R_RTC_Create).

(4) Addition of RTCOUT Frequency Select Option to RTC Control Function

The "Clock RTCOUT output period Select" option, which is used to select the frequency of the RTCOUT output clock, has been added to the first argument of the RTC control function (R_RTC_Control).

(5) 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.

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 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 RX220 Group from the following web page:

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

Document Title: RX220 Group Renesas Peripheral Driver Library

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

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