

[Released on the Web]

R20TS0543EJ0100

Rev.1.00

Feb. 01, 2020

RE Software Development Kit

RE01 1500KB Group CMSIS Driver Package Rev1.01

## Overview

The RE Software Development Kit RE01 1500KB Group CMSIS Driver Package Rev1.01 is released on the web.

This product is available free of charge.

## 1. Product Features

What is an RE01 1500KB Group CMSIS Driver Package?

The RE01 1500KB Group CMSIS Driver Package is a driver package that can be used to increase development efficiency. The package includes startup code and drivers for the peripheral functions so users can start system development immediately. In this package, ARM® CMSIS compliant API driver software and Renesas driver software are provided. Refer to the following URL for more information.

<https://www.renesas.com/re-cmsis>

## 2. Main Updates of the RE01 1500KB Group CMSIS Driver Package from Rev1.00 to Rev1.01

The main updates are as follows. The version of each file is updated to Rev1.01.

**Table 1 List of Main Updates**

No.	Category	Target <sup>(Note1)</sup>	Details
1	New function	USB driver(C)	Added USB Basic and USB PMSC driver.
2	Restrictions eliminated	GDT driver(R) PMIP driver(R)	Eliminated the restriction of RAM macro definition. <sup>(Note2)</sup>
3	Bug fix	LPM Driver(R)	Fixed RAM allocation issue: some internal functions previously not properly placed in RAM. <sup>(Note3)</sup>
4	New documentation	SMIP driver(R) PMIP driver(R)	Added new English specification documents.
5	Specification change	pin.c file	Changed the default code: from only 1 pin not commented out to all pins commented out.
6	Specification change	CMSIS-Core	Optimized MOCO and LOCO oscillation stabilization wait time

Note 1: Alphabetic characters enclosed in ( ) mean the following.

C: ARM® CMSIS compliant API driver software

R: Driver software exclusive to Renesas

Note2: For details about the restriction, refer to the following URL.

Application Note Document number R01AN4947EJ0100

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<https://www.renesas.com/search/keyword-search.html#genre=document&q=r01an4947>

Note3: For details about this problem, refer to the URL below.

RENESAS TOOL NEWS Document number R20TS0510EJ0100

[Notes] RE Software Development Kit RE01 1500KB Group CMSIS Driver Package Rev1.00

RAM Allocation Limitations of the Low Power Management Driver

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r20ts0510>

### 3. Supported Devices

RE family: RE01 1500KB group

### 4. Operating Environment

The recommended operating environment is as follows.

**Table1 List of Recommended Operating Environment**

IDE	Compiler	Debugger
IAR EWARM V8.4 or later (IAR Embedded Workbench® for ARM)	IAR V8.4 or later	IAR I-Jet
		SEGGER J-Link or J-Link OB
Renesas e <sup>2</sup> studio V7.0.0 or later	GCC V.6 GNU 6-2017-q2-update	SEGGER J-Link or J-Link OB

### 5. Obtaining the Product

Obtain the package from the URL below.

<https://www.renesas.com/re-cmsis>

Refer to the application note for more information.

<https://www.renesas.com/search/keyword-search.html#genre=document&q=r01an5278>

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**Revision History**

Rev.	Date	Description	
		Page	Summary
1.00	Feb.01.20	-	First edition issued

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