

The Emulator Software for the E10A-USB Emulators HS0005KCU01H and HS0005KCU02H Revised to V.3.03 Release 00

We have revised the emulator software for the E10A-USB emulators HS0005KCU01H and HS0005KCU02H from V.3.02 Release 01 to V.3.03 Release 00. The emulator software and the emulators are used to evaluate and debug systems designed with MCUs of the SuperH RISC engine, H8S, and H8SX families.

1. Product and Versions to Be Updated

The emulator software for the E10A-USB emulators HS0005KCU04H and HS0005KCU02H

V1.0.00 through V.3.02 Release 01

2. Descriptions of Revision

2.1 Supported MCUs Increased

The following MCUs have been added to the support line:

Device group	MCUs
H8S	H8S/24279R, H8S/24278R, H8S/24276R, H8S/24275R, H8S/24279, H8S/24278, H8S/24276, H8S/24275, H8S/24259, H8S/24258, H8S/24256, and H8S/24255
SH-2A	SH72546R and SH72531RFCC
SH-4A	SH74552, SH74562, and SH74552_Debug_MCU_BOARD

2.2 Problems Fixed

The following problems, which are related to profiling functions, have been fixed:

(1) Problem with profile measurement bearing incorrect results

Description:

After the following three steps, profile measurement bears incorrect results:

- (1) The program is executed under the conditions that the profiling functions are made enabled in the Profile window, and software breakpoints or on-chip breakpoints are set.
- (2) The program is once halted at a breakpoint.
- (3) Then the program is restarted.

Conditions:

This problem arises if the target system is designed with any of the following MCUs:

- Members of SH-2A device group
- Members of SH-2 device group except those that have no profiling functions

(2) Problem with halting programs during profile measurement

Description:

After the following three steps, the program may not be halted at breakpoints:

- (1) Under the condition that a breakpoint is set at a Branch instruction, profile measurement is performed.
- (2) The program is once halted at the breakpoint in (1).
- (3) Then the program is restarted.

Example:

```
-----  
while(1){  
.....  
    funcA();    <- Number of execution times of this function  
                is measured.  
    funcB();    <- Here is set a software breakpoint.  
.....  
}
```

Conditions:

This problem arises if the target system is designed with any MCU having profiling functions of the SH-2A device group.

3. How to Update Your Product

Online update is available free of charge. Update yours in either of

the following ways:

- (1) Use AutoUpdate Utility. This service will be available on and after December 6.
- (2) Follow these steps:
 - (a) Download the update program or programs you want of the product (a .zip file) from:

https://www.renesas.com/e10a_usb_download

This site will be opened on December 6.

The above URL is one of our global sites.

Here, two types of edition of update programs are provided. The one, the separate edition, consists of the update programs each of which is downloaded separately for the corresponding device group supported by the E10A-USB emulators concerned. The other, the full-package edition, consists of those that can be downloaded at a time for all the device groups. Use either of them as necessary.

- (b) Decompress the downloaded .zip file to obtain the installer program and then execute it.
If you have downloaded the full-package edition of the update programs, you will obtain the HewInstMan.exe file, and if an separate program, setup1.exe, after decompression.

(3) **Notice**

When the installer program, be it HewInstMan.exe or setup1.exe, is executed in the development system where High-performance Embedded Workshop V.4.06.00 or earlier resides, it will be updated to V.4.07.00.

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