

RENESAS TOOL NEWS on October 1, 2009: 091001/tn10

## MCUs Added to the Support Line of the R0E521300MCU00 MCU Unit (An MCU Unit Used with the E100 Emulator)

In the R0E521300MCU00 MCU unit, which is used with the E100 emulator, the MCUs of the R8C/35C, /33C, /32C, /35D, /33D, and /32D groups have been added to the support line. For details of the MCU unit, go to:

<http://www.renesas.com/e100/r0e521300mcu00>

The above URL is one of our global sites.

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### 1. Description

In the R0E521300MCU00 MCU unit, the MCUs of the R8C/35C, /33C, /32C, /35D, /33D, and /32D groups have been added to the support line.

To emulate systems designed with these MCUs, you need to use the MCU file specific to the target MCU's group.

### 2. How to Obtain and Install MCU Files

To obtain and install the MCU file, follow these steps:

(1) Check to see that you have installed M16C R8C E100 Emulator Debugger V.1.02 Release 01. If not, update yours to V.1.02 Release 01.

The V.1.02 Release 01 product can be downloaded from:

[http://www.renesas.com/e100\\_download](http://www.renesas.com/e100_download)

For details of this version of the product, see RENESAS TOOL NEWS Document No. 090916/tn4 at:

<http://tool-support.renesas.com/eng/toolnews/090916/tn4.htm>

(2) Download the MCU file and install it as follows.

a. Download a zip file from:

[http://tool-support.renesas.com/eng/toolnews/download/r8c\\_3x.htm](http://tool-support.renesas.com/eng/toolnews/download/r8c_3x.htm)

This Web page will be opened from October 20.

b. Decompress the downloaded zip file to obtain the following files:

Installer: r0e521300mcu00\_mcufiles\_installer\_091001.exe

Release note: rej10j1834-0400\_r0e521300mcu00\_s.pdf

- c. If you have installed two or more emulator debuggers, make the emulator debugger updated in (1) active by using Install Manager.
- d. Execute the installer and follow the instructions on screen to install the MCU file.

(3) Check to see that the MCU file has been installed successfully.

To do so, invoke the emulator debugger, and if the names of the R8C/35C, /33C, /32C, /35D, /33D, and /32D groups are displayed in the Group column of the Device Settings dialog box, the MCU file has been installed successfully. If those names are not displayed, redo steps c and d above.

(4) Read through the release note before using the R0E521300MCU00.

### **3. Converter Boards**

To emulate your target systems, you need to use any of the following three optional converter boards:

R0E53035ACFJ50: for the R8C/35C and /35D groups

R0E53033ACFG90: for the R8C/33C and /33D groups

R0E53032ACsjc0: for the R8C/32C and /32D groups

The suite of the E100 emulator and an MCU unit are available. For details, go to one of our global sites from here.

### **4. Limitation or Notice**

In the location of the Address Match Interrupt 1 Enable bit, the R0E521300MCU00 is different from the MCUs of the R8C/35D, /33D, and /32D groups as follows:

R0E521300MCU00: Bit 0 in address 01C7h

MCUs of R8C/35D, /33D, and /32D groups:

Bit 1 in address 01C3h

If you use the Address Match Interrupt 1, take care of the difference of the bit's location.

However, the location of the Address Match Interrupt 0 Enable bit of the R0E521300MCU00 is the same as that of the MCUs of the R8C/35D, /33D, and /32D groups. That is, it is located on bit 0 at address 01C3h.

This limitation/notice is described in the release note you obtained in Article 2-(2)-b.

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