

Read This Before Using This Product

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The R0E3308B0EPB00 is an emulation probe for the M32C/8B Group MCUs. This document describes the information necessary to use this product. Read this BEFORE using the product.

1. Applicable Emulator Debugger

- (1) M32C PC7501 Emulator Debugger (which runs on the integrated development environment High-performance Embedded Workshop)
- (2) M3T-PD308F V.3.20 Release 1

2. Installing the MCU files and firmware for this product

You need to update the MCU files and firmware file to the latest version. Install the firmware “m308b0f.s”, the MCU files “m308b0.mcu” and “m308b0_ad.mcu” according to the following procedures.

- (1) M32C PC7501 emulator debugger
 1. Before executing the file, check that the M32C PC7501 emulator debugger is installed on the host machine. If your emulator debugger is not the latest version, update it using AutoUpdate Utility.
 2. Execute the installer “m308b0fw_mcu_file_installer20081201.exe” (included in the CD-ROM attached to the product) to update the MCU files and firmware. Follow the instruction on the screen to perform the installation.

The installer starts automatically when the CD-ROM is inserted in the host machine. If it does not start, copy the installer to the host machine and execute it.

The latest installer (compressed in zip format) is also available from the following URL. Confirm the date of the file name and install the latest version.

<http://tool-support.renesas.com/eng/toolnews/download/r0e3308b0epb00.htm>

- (2) M3T-PD308F V.3.20 Release1 (discontinued product)
 1. Before copying the files, check that the emulator debugger M3T-PD308F is installed on the host machine. If your M3T-PD308F is not the latest version, update it.
 2. Copy the compressed MCU and firmware file “m308b0fw_mcu_file20090407.zip” from the attached CR-ROM to the host machine where the emulator debugger M3T-PD308F is installed, and decompress it.
[Note] If the installer for the M32C PC7501 emulator debugger starts when the CD-ROM is inserted, click the Cancel button to quit the installer.

The latest MCU and firmware file for the M3T-PD308F is also available from the above URL. Confirm the date of the file name and copy the latest version.

3. Copy the MCU files and firmware file following the procedure below.
 - 1) Copy “**m308b0f.s**” to the directory that contains the M3T-PD308F execution file “pd308f.exe”.
 - 2) Copy “**m308b0.mcu**” and “**m308b0_ad.mcu**” to the directory (Mcufiles) under the above directory that contains MCU files.

- (3) Downloading the new firmware file
1. After copying the MCU files and firmware file by following the procedure (1) or (2), the emulator debugger will automatically detect the update and download the firmware at the first start-up. When a dialog box appears to confirm the download, click the OK button to download the firmware to the PC7501. If not detected automatically, download the firmware file **after starting in maintenance mode**, referring to “2.7 Downloading Firmware” in the R0E3308B0EPB00 User’s Manual.
 2. To check that the firmware is downloaded properly, execute the self-check following the procedure below after downloading the firmware.
 - If the user system is connected, disconnect it.
 - Reset the switch setting inside the emulation probe to its factory setting.For details on the self-check, refer to “2.8 Self-check” in the R0E3308B0EPB00 User’s Manual.

(4) Selecting an MCU file

1. “m308b0.mcu”

When selecting AN00-AN07 or AN20-AN27 for analog input port select bits (bit2 and bit1 of 0394h), port P15 can be used as an I/O port. However, external trigger mode (ADtrg and three-phase timer B2) cannot be used. When using the “m308b0.mcu”, **set all the SW5 switches of the R0E3308B0EPBM0 to “OFF”**. The factory settings of the SW5 switches are “OFF”.
 2. “m308b0_ad.mcu”

For external trigger mode, use the “m308b0_ad.mcu”. In this case, set analog input port select bits (bit2 and bit1 of 0394h) as follows.
- 1) To select AN0-AN7 or AN150-AN157 for analog input port select bits:
Set all the SW5 switches of the R0E3308B0EPBM0 to **“ON”**.
 - 2) To select AN00-AN07 or AN20-AN27 for analog input port select bits:
Setting the SW5 switches of the R0E3308B0EPBM0 will enable to set analog input pin by each individual pin. **Set the pins used for the A/D conversion to “ON” and the pins not used to “OFF”**. Port P15 corresponding to a selected bit needs to be set to “input”.
- For the specifications of the SW5 switches and how to set them, see “2.10.1 (2) Notes on Switch SW5” in the R0E3308B0EPB00 User’s Manual. To use multi-port sweep mode, set all the SW5 switches of the R0E3308B0EPBM0 to **“ON”**.

3. Notes on Using This Product

Be sure to read the precautions and notes on the R0E3308B0EPB00 User’s Manual before using this product.

- (1) When using this product, the main clock should be 16 MHz or less and the CPU clock should be 32 MHz or less.
- (2) When the CPU rewrite program is allocated to the expansion emulation memory, the program may run out of control. For the CPU rewrite program, use an internal RAM area or an external resource on the user system. This precaution only needs to be observed when using an emulator, and does not apply for the actual MCU.

4. Inquiries

For technical information on this product, fill in the text file which is downloaded from the following URL, then send the information to your local distributor.

<http://tool-support.renesas.com/eng/toolnews/registration/support.txt>