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Note on Using M32100T5-SDI-E Emulator

We inform you of the problem that arises when you use the SDI-type emulator, M32100T5-SDI-E, for the M32R family of MCUs.

1. Problem

If you run the M32100T5-SDI-E for a long time so that the temperature of the emulator may rise, a bus-timing error arises between the monitor MCU for emulator control and the FPGA in the M32100T5-SDI-E. So the emulator debugger may display an error message saying that, for example, "Target MCU is not under control."

Note, however, that this problem depends on individuality of FPGA devices.

2. Solution

(May 22, 2012)

The m32rcpe1.zip file in the following steps had a problem, so we replaced it with a modified file.

Your emulator firmware can not be updated even if you use m32rcpe1.zip provided on May 10, 2012 or before,

and you can not avoid the bus-timing error described in this news.

If you have downloaded the m32rcpe1.zip on May 10, 2012 or before,

please download again a m32rcpe1.zip from the following LINK and use it.

To avoid this problem, install the problem-fixed firmware for the emulator onto the emulator debugger by following these steps:

- (1) Make sure that the emulator debugger M3T-PD32RM V.3.01 Release 00 has been installed. If it is running, exit it.
- (2) Download the problem-fixed firmware file, m32rcpe1.zip (51.4KB), from [HERE](#).
- (3) Decompress the downloaded m32rcpe1.zip file to obtain m32rcpe1.s.
- (4) Copy m32rcpe1.s in the folder where pd32rm.exe, the emulator

debugger itself, resides.

- (5) Start M3T-PD32RM, and when the message saying "You need to download new firmware to use this debugger" is displayed, click OK. Your emulator firmware will be updated.

If the above message is not displayed, it indicates that the problem-fixed firmware has already been installed. That is, after the firmware has been updated, the message is not displayed when the debugger has been started.

- (6) On the Help menu of M3T-PD32RM, select About and check to see that the version number of the problem-fixed firmware is displayed as follows:

Firmware "M32RCPE1.S" Ver.2.03.01 *****

Here, ***** denotes any of the following expressions according to the type of MCU

M32RMT5_2.HWC

M32RMT5_3_4.HWC

M32RMT5_3_8.HWC

M32RMT5_3_8_C0.HWC

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