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A Note on Using Compact Emulators M34519T2-CPE and M34552T2-CPE

Please take note of the following problem in using the M34519T2-CPE and M34552T2-CPE compact emulators (used for the 4500 series MCUs):

- On overstep-execution of subroutine call instructions
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1. Products Concerned

Concerned are the following compact emulators in which the version* 1.00.05 or earlier of the M34500A1.C0 firmware file is used:

- M34519T2-CPE (for the 4518, 4519, 4583 and 4584 groups)
- M34552T2-CPE (for the 4552, 4553 and 4556 groups)

* How to Check for the Version Number

- (1) Launch the M3T-PD45M emulator debugger.
- (2) Open the Help menu and select About.
- (3) The Version dialog box appears. Check to see that the Monitor name is Ver.1.00.05.

2. Description

When a subroutine instruction (BM, for example) is overstep-executed, the main program halts at the beginning address of the subroutine, not the address to which the subroutine should return.

However, the program is executed properly up to the address where it will be halted.

3. Condition

This problem occurs if a subroutine instruction is overstep-executed under the conditions that interrupts are enabled and an interrupt request is generated.

Example:

Address	Instruction	
0005	BM 100	// This instruction overstep-executed under the specified condition.
0006	NOP	
0100	NOP	// And the program incorrectly halts here,
0101	RT	not correct address 0006.

4. Workaround

This problem can be circumvented by using the problem-fixed firmware file. So please replace yours with it as follows:

- (1) Download the problem-fixed M34500A1.C0 Ver.1.00.06 firmware file (181KB).
- (2) Decompress the downloaded file.
- (3) Update your firmware file by following the steps explained in the Readme_e.txt file.

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