

## A Note on Using Emulation Pods for the M16C/60 Series MCUs

Please take note of the following problem in using the emulation pods listed below (each of these pods is used in combination with the PC4701 emulator):

- About memory mapping

### 1. Products Concerned

MCUs Supported	Product Type	Serial Nos. Involved
M16C/62P and M16C/30P MCU groups	M3062PT3-RPD-E	All the products
	M3062PT3-RPD	Every product whose serial number ends by A (upgraded products from TS and WS)
M16C/62N and M16C/30L MCU groups	M3062NT3-RPD-E	All the products
M30245 (in M16C/24 group)	M30245T3-RPD-E	All the products
	M30245T-RPD	Every product whose serial number ends by M (upgraded products from TS, WS and ES)
M16C/6N4, /6N5, /6NK, /6NL, /6NM, and /6NN (in M16C/6N group)	M306NKT3-RPD-E	All the products
	M306NKT3-RPD	All the products
M16C/6N4 and /6N5 (in M16C/6N group)	M306N4T3-RPD-E	All the products
M306H3 (in M16C/6H group)	M306H3T3-RPD-E	All the products
	M306H3T3-RPD	All the products

### 2. Description

If your emulation pod is used in memory expansion or microprocessor mode, and "External" is selected at memory mapping\* to the area used as a stack, the data values in register R0 and at address 0000Ah become indefinite after debug operations such as stopping the user program, referencing memory, and changing memory.

\* Selections at memory mapping

Internal : Emulation memory of an emulation pod used.

External : Memory on the target board or resources of an evaluation MCU used.

### 3. **Workaround**

Select "Internal" at memory mapping to the area used as a stack.

If "External" selected, only program execution will be available in debug operations.

### 4. **Schedule of Fixing the Problem**

We plan to fix this problem in our next release of the M3T-PD30 emulator debugger, but it is unnecessary to fix the emulation pods concerned.

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