

New MCU Groups Supported by Compact Emulator M38000T2-CPE

We have added new MCU groups to the line supported by the M38000T2-CPE compact emulator.

1. Description

Two MCU groups shown in the table below have been added to the line supported by the M38000T2-CPE, which emulates the 740 family of MCUs.

The table also lists their emulator MCUs and MCU files.

MCU Group	Emulator MCU *1	MCU File
3858	M38588RSS	M38000.MCU *2
7545	M37545RLSS	M37545.MCU *3

NOTES:

- *1. The emulator MCUs are optional.
- *2. This MCU file has already been loaded in the M38000T2-CPE.
- *3. Download and decompress this MCU file. (File name: M37545.zip, size: 145 bytes)

To debug any MCU in the above MCU groups, you need not update your firmware file existing in the M38000T2-CPE but use either of the emulator MCUs listed above, according to the MCU to debug.

For the guaranteed operational conditions of the M38000T2-CPE running with the emulator MCU you want to use, see its datasheet.

2. A Note on Debugging Members of the 7545 Group

When debugging any member of the 7545 Group using the emulator, disable the watchdog timer function in the target system.

If you want to debug the watchdog timer function, enable the function under the condition that the target system runs free.

How to disable and enable the watchdog timer function are explained below.

2.1 How to Disable the Watchdog Timer Function

In these settings, only the watchdog timer function is disabled; the other debug functions remain enabled.

- (1) Set the ROM option data (FFDAh) in the user program as follows:

```
Bit:  7  6  5  4  3  2  1  0
Set to: 0  0  0  0  1  0  *  1
```

* Set Bit 1 according to your specification.

NOTICE: These settings are used only for debugging.

2.2 How to Enable the Watchdog Timer Function

These settings are valid only for debugging while the target program is running free.

- (1) Set the ROM option data (FFDAh) in the user program as follows:

```
Bit:  7  6  5  4  3  2  1  0
Set to: 0  0  0  0  0  0  *  0
```

* Set Bit 1 according to your specification.

NOTICE: These settings are used only for debugging.

- (2) Launch the M3T-PD38M emulator debugger, and select the Reset Disable option button after clicking the Download tab of the Init dialog box.
- (3) Load the user program onto the emulator.
- (4) Download and decompress the M37545.SCR script file. (File name: M37545_SCR.zip, size: 129 bytes)
- (5) Execute the M37545.SCR file in the Script window.
Contents of the script file

Reset: Resets the target system

GF: Runs the target system free

3. Related News

- 3850, 3822, 38C2 and 38K0 Groups MCUs Supported
RENESAS TOOL NEWS "New MCU Groups Supported by Compact Emulator M38000T2-CPE" issued on January 16, 2004.
- 38C1 and 7540 Groups MCUs Supported
RENESAS TOOL NEWS "New MCU Groups Supported by Compact Emulator M38000T2-CPE" issued on March 1, 2004.
- 38C5 Group MCUs Supported
RENESAS TOOL NEWS "An MCU Group Newly Supported by Compact Emulator M38000T2-CPE" issued on March 16, 2004.
- M37150, M37160 and M37281 Group MCUs Supported
RENESAS TOOL NEWS "New MCU Groups Supported by Compact Emulator M38000T2-CPE" issued on December 1, 2004.
- 3826, 3885, 3886, 38K2, 38C8, 7516, 7517, 7560, M37151, M37161, M37221, M37225, and M37280 Group MCUs Supported
RENESAS TOOL NEWS "New MCU Groups Supported by Compact Emulator M38000T2-CPE" issued on Sep 16, 2005.

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