

RENESAS TOOL NEWS on October 1, 2004: RSO-M30290T2-CPE-041001D

A Compact Emulator M30290T2-CPE for the M16C/Tiny Series MCUs Released

We have released a compact emulator--M30290T2-CPE--for the M16C/26A, M16C/28, and M16C/29 groups, M16C/Tiny Series, M16C family of MCUs.

1. Outline

The M30290T2-CPE is a compact emulator with real-trace functions and is used for the M16C/26A, M16C/28, and M16C/29 groups of MCUs.

With the product package are included such software tools as integrated development environments, a C compiler, an assembler, an emulator, and a debugger, so you can start developing and debugging your application programs* immediately after getting and unpacking the product.

- To debug your programs, you need an optional converter board for connecting your target MCU to the emulator. (See Section 3.2.)
- Fundamental debugging functions much enhanced.
- Real-time trace functions supported.
- Compactly designed in size.
- Programming and debugging software tools included.
- Economical-priced.
- USB (USB 1.1 full-speed) supported. (Also can be connected to host machines equipped with the USB 2.0 interface.)

2. The Contents of the Product Package

- (1) A compact emulator--M30290T2-CPE
- (2) An evaluation MCU (already mounted)
- (3) Two oscillator boards
 - OSC-3 (for 20-MHz main clock)
 - OSC-2 (for main clock)
- (4) A USB interface cable (1.8 m)

- (5) A power cable (30 cm; no power supply included)
- (6) An emulator debugger--M3T-PD30MF (specific to the M30290T2-CPE)
- (7) A C compiler--entry version of M3T-NC30WA
This entry version includes a C compiler, an assembler, and two integrated development environments (High-performance Embedded Workshop and TM).
- (8) A user's manual

For further information on the product, see its datasheet.

3. Ordering Information

When you place an order for the product you want, please provide the necessary items of information in the lists below for your local Renesas Technology sales office or distributor.

3.1 On an M30290T2-CPE Only (with No Converter Board for Connecting a Target MCU)

Product Type	Type Name	Comment
M30290T2-CPE	M30290T2-CPE	--

About the price, please contact your local Renesas Technology sales office or distributor.

3.2 On the Set of an M30290T2-CPE and a Converter Board for Connecting a Target MCU

Converter boards vary with the MCUs connected. The name and contents of the set corresponding to each MCU are as follows:

- (1) For the M30260 MCU
(48-pin, 0.5-mm-pitch LQFP in the M16C/26A group)
Set Name: M30260T2-CPE-GP
Contents: an M30290T2-CPE and an M30260T-48FPD converter board
- (2) For the M30263 MCU
(42-pin, 0.8-mm-pitch SSOP in the M16C/26A group)
Set Name: M30263T2-CPE-FP
Contents: an M30290T2-CPE and an M30263T-42SSB converter board
- (3) For the M30280 and the M30290 MCU
(Both 80-pin, 0.5-mm-pitch LQFP in the M16C/28 and the M16C/29 group respectively)
Set Name: M30290T2-CPE-HP
Contents: an M30290T2-CPE and an M30290T-80FPD converter board
- (4) For the M30281 and the M30291 MCU
(Both 64-pin, 0.5-mm-pitch LQFP in the M16C/28 and the M16C/29 group

respectively)

Set Name: M30291T2-CPE-HP

Contents: an M30290T2-CPE and an M30291T-64FPD converter board

Ordering Information on Each Set

Set Name	Type Name	Comment
M30260T2-CPE-GP	M30260T2-CPE-GP	--
M30263T2-CPE-FP	M30263T2-CPE-FP	--
M30290T2-CPE-HP	M30290T2-CPE-HP	--
M30291T2-CPE-HP	M30291T2-CPE-HP	--

About the prices, please contact your local Renesas Technology sales office or distributor.

4. Notices

- (1) We are going to upgrade the already-shipped WS products to those equivalent to the mass-produced emulator free of charge.
So when we have been ready to upgrade, we will inform you of it on RENESAS TOOL NEWS.
- (2) The M30290T2-CPE cannot be exported to the countries where the bearing of the CE marking is necessary. Now we are making arrangements for obtaining the CE marking. So when we have obtained the marking, we will also inform you of it on our news.

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