

RENESAS TOOL NEWS on October 3, 2007: 071003/tn1

## A Compact Emulator--M3028BT2-CPE--for the M16C/Tiny MCU Series Released

We have released a compact emulator--M3028BT2-CPE--for the M16C/Tiny series. According to the release of the M3028BT2-CPE, its predecessor, the M30290T2- CPE, has been discontinued from production. For further information, see Section 4 later.

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### 1. Features

The M3028BT2-CPE, used for the M16C/26A, M16C/28, and M16C/29 groups, is a compact emulator provided with real-time trace capabilities. It supports MCUs operating at frequencies up to 24 MHz maximum.

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

The features of the product are as follows:

- (1) Fundamental debugging capabilities much enhanced.
- (2) Real-time trace capabilities supported.
- (3) Compactly designed in size.
- (4) Economical-priced.
- (5) Software tools for programming and debugging included.
- (6) USB 1.1 (full-speed) supported as the interface with the PC.  
(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--M3028BT2-CPE
- (2) An evaluation MCU (already mounted)
- (3) A USB-interface cable (1.8 m)
- (4) A power cable (30 cm; no power supply included)

- (5) Two oscillator boards
  - OSC-3 for a main clock of 20 MHz (already mounted)
  - OSC-2 for another main clock
- (6) A user's manual
- (7) Two software tools in a CD-ROM disc
  - The M16C R8C compact emulator debugger
  - The M3T-NC30WA C-compiler (evaluation version)

**NOTICE:**

No such services as technical support, problem-fixing and program-updating are provided for the evaluation version of the M3T-NC30WA C-compiler.

For details of the specifications of the product, see its datasheets on the Web site at

[http://www.renesas.com/m3028bt2\\_cpe](http://www.renesas.com/m3028bt2_cpe)  
(available on and after October 4).

### 3. Ordering Information

If you place an order for the product, please supply the following items of information to your local Renesas Technology sales office or distributor (for the price of the product, also contact them). Note that your order is acceptable from this October 3 on.

#### 3.1 M3028BT2-CPE Emulator Only (with No Converter Board for Connecting the Emulator to Any Target MCU)

Product type:	M3028BT2-CPE
Type name:	M3028BT2-CPE

#### 3.2 Combinations of the Emulator and a Converter Board

Sets of the M3028BT2-CPE emulator and the converter boards for connecting the emulator to various types of target MCU are available.

##### (1) For the PRSP0042GA-A package (42-pin 0.8-mm-pitch SSOP; previous 42P2R-E)

Product type and type name: M3028BT2-CPE-1

Contents: the M3028BT2-CPE and the M30263T-42SSB converter board

##### (2) For the PLQP0048KB-A package (48-pin 0.5-mm pitch LQFP; previous

#### **48P6Q-A)**

Product type and type name: M3028BT2-CPE-2

Contents: the M3028BT2-CPE and the M30260T-48FPD converter board

#### **(3) For the PLQP0064KB-A package (64-pin 0.5-mm-pitch LQFP; previous 64P6Q-A)**

Product type and type name: M3028BT2-CPE-3

Contents: the M3028BT2-CPE and the M30291T-64FPD converter board

#### **(4) For the PLQP0080KB-A package (80-pin 0.5-mm-pitch LQFP; previous 80P6Q-A)**

Product type and type name: M3028BT2-CPE-4

Contents: the M3028BT2-CPE and the M30290T-80FPD converter board

#### **(5) For the PTLG0085JB-A package (85-pin 0.65-mm-pitch TFLGA; previous 85F0G)**

Product type and type name: M3028BT2-CPE-5

Contents: the M3028BT2-CPE and the M30280T-85LGF converter board

## **4. Notices**

After starting marketing of the M3028BT2-CPE, we have discontinued marketing of the M30290T2-CPE. So, for the customers who are using it, we are going to upgrade it to an equivalent of the M3028BT2-CPE (the maximum operating frequency of target MCUs extended from 20 MHz to 24 MHz) with additional charge.

When we are ready to upgrade your M30290T-EPB, we will inform you of it on our tool news. If you request us to repair or check your M30290T2-CPE, we will upgrade it to an equivalent of the M3028BT2-CPE after repairing or checking it. So if you don't need this upgrade, please let us know of it explicitly in writing.

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