

To our customers,

Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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M3028BT-EPBM

MCU Board for Replacing M3028BT-EPB and M30290T2-CPE

User's Manual (for replacement)

Keep safety first in your circuit designs!

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- This product has been developed by assuming its use for program development and evaluation in laboratories. Therefore, it does not fall under the application of Electrical Appliance and Material Safety Law and protection against electromagnetic interference when used in Japan.



CAUTION

If the requirements shown in the "CAUTION" sentences are ignored, the equipment may cause personal injury or damage to the products.

Renesas Tools Homepage <http://www.renesas.com/en/tools>

1. Outline

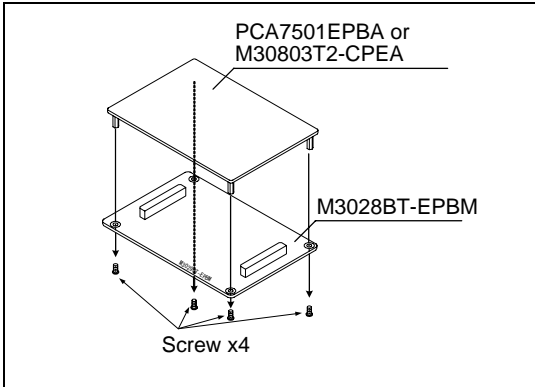
The M3028BT-EPBM is an MCU board for replacing the emulation probe M3028BT-EPB and the compact emulator M30290T2-CPE for M16C/Tiny Series.

2. Components

Package components

Description	Quantity
M3028BT-EPBM MCU board for replacing the M3028BT-EPB and M30290T2-CPE	1
M3028BT-EPBM User's Manual (for replacement) (This manual)	1
M3028BT-EPBM User's Manual (for replacement) (Japanese)	

3. Replacing MCU Boards

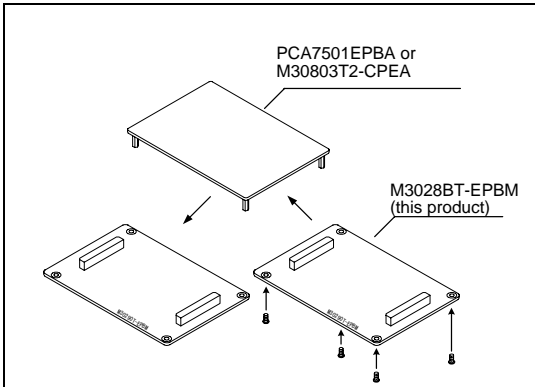


PCA7501EPBA or M30803T2-CPEA

M3028BT-EPBM

Screw x4

- (1) Unscrew the four screws included with the M3028BT-EPB or the M30290T2-CPE.
- (2) Pull out the M3028BT-EPBM from the PCA7501EPBA of the M3028BT-EPB, or from the M30803T2-CPEA of the M30290T2-CPE. Note that pull them out vertically, otherwise the connectors may be damaged.



PCA7501EPBA or M30803T2-CPEA

M3028BT-EPBM (this product)

- (3) Attach the new M3028BT-EPBM to the PCA7501EPBA of the M3028BT-EPB, or the M30803T2-CPEA of the M30290T2-CPE. The connecting directions are as follows
 - With the M3028BT-EPB
PCA7501EPBA J3 connector to M3028BT-EPBM J1 connector
PCA7501EPBA J4 connector to M3028BT-EPBM J2 connector
 - With the M30290T2-CPE
M30803T2-CPEA J3 connector to M3028BT-EPBM J1 connector
M30803T2-CPEA J4 connector to M3028BT-EPBM J2 connector
- (4) Tighten the four screws in an even, crisscross pattern to secure the new M3028BT-EPBM with a screwdriver.
- (5) After replacing the board, perform the self-check to make sure that it is installed properly. For details on the self-check, refer to the user's manual of each product.

Figure 3.1 Replacing MCU boards

4. Precautions for Safety

⚠ CAUTION

Cautions to Be Taken for Handling This Product:



- Before you replace the MCU board, shut off the power, otherwise internal circuits may be damaged.
- Insert or pull out the MCU board vertically, otherwise the connectors may be damaged.
- For the M3028BT-EPB, after replacing the MCU board, be careful about the direction for connecting to the PC7501.
- The MCU board with 24MHz sticker for the M30290T-EPB and the M30290T2-CPE can be replaced with this product.

Note on This product:

- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/en/tools>