

M30870T-EPB, the Emulation Probe for the M32C/87 Group of MCUs Released

We have released the M30870T-EPB emulation probe. It is used for the M32C/87 group of MCUs in combination with the PC7501 emulator.

1. Outline

The M30870T-EPB is an emulation probe used in combination with the PC7501 emulator (specific to the M16C family) and supports the M32C/87 group of MCUs.

It operates under the following conditions:

- operating clock frequencies: 32 MHz maximum
supply voltages to target: 4.2--5.5 V, or
- operating clock frequencies: 24 MHz maximum
supply voltages to target: 3.0--5.5 V

2. Contents of the Product Package

- (1) An MCU board--M30870T-EPBM--for the M32C/87 group
- (2) An evaluation MCU (already mounted)
- (3) A board for the probe--PCA7501EPBA--specific to the PC7501
- (4) A converter board--M30800T-PTC--for connecting a 100-pin 0.65-mm-pitch QFP
- (5) A 100-pin 0.65-mm-pitch IC socket--IC61-1004-051--manufactured by Yamaichi Electronics Co., Ltd.
- (6) Two oscillator boards:
 - An OSC-3 board for the 32-MHz main clock
 - An OSC-2 board for a main clock
- (7) A user's manual

For further information on the specifications of the product, please see its datasheet.

3. **Problems in Using M30870T-EPB**

Please take note of the following problems in using the product:

- (1) If CPU rewrite program is placed in the expanded emulation memory, the program may run away. So place this program in the on-chip RAM area or the external resource on the target system.
However, this problem arises only in the emulator; not in any actual MCU.
- (2) If the product is used in combination with the M3T-PD308F V.3.20 Release 1 or earlier (the emulator debugger for the PC7501 emulator), update your firmware and MCU files as described in the next section. Otherwise, if programs are downloaded to the emulator with the main clock XIN being set to 16 MHz or less, the error message saying ERROR 16258: Flash ROM deletion error occurred. may appear.

4. **How to Update Your Firmware and MCU Files**

Please update your firmware and MCU files as follows:

- (1) Download the m30850f.s firmware file and the m30870_a.mcu and m30870_ad_a.mcu MCU files from "Download Site An MCU file and a firmware file required when you use emulation probe M30870T-EPB for the M32C/87 Group MCUs."
- (2) Copy the downloaded m30850f.s firmware file to the folder (*1) where the M3T-PD308F resides.
- (3) Also copy the downloaded m30870_a.mcu and m30870_ad_a.mcu MCU files to the mcufiles folder under the same folder in (2).
- (4) Launch the M3T-PD308F and you see the Init dialog box opens.
Then select the MCU tab and click the Refer button to open the File selection dialog.
- (5) In the MCU Files list box, select the m30870_a.mcu or m30870_ad_a.mcu file (*2); then click Open.
- (6) Again select the MCU tab in the Init dialog box and if you

see "m30870_a.mcu" or "m30870_ad_a.mcu" is displayed in the MCU box according to your selection, the file has been successfully installed.

NOTES:

- *1. If the M3T-PD308F has been installed as the default, the path of this folder is c:\¥mtool¥pd308f.
- *2. The m30870_a.mcu and the m30870_ad_a.mcu file are different in limitations imposed on the function of selecting an analog input pin. For details, see the M30870T-EPB user's manual or the document included with the product.

5. Ordering Information

If you place an order for the product, please provide the following items of information for your local Renesas Technology sales office or distributor:

Product type:	M30870T-EPB
Type name:	M30870T-EPB
Comment:	None

For the price of the product, contact your local Renesas Technology sales office or distributor.

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