

# M30102T-PTC

Converter Board for M30102

## User's Manual

Keep safety first in your circuit designs!

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### CAUTION

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

## 1. Outline

The M30102T-PTC is a converter board for M30102 Group for connecting the pod probe M30100T-PRB to the foot pattern for 48-pin 0.5-mm-pitch QFP (48P6Q-A).

## 2. Package Components (see Figure 1)

- (1) M30102T-PTC converter board
- (2) YQPACK048SD (made by Tokyo Eletech Corporation)
- (3) NQPACK048SD (made by Tokyo Eletech Corporation)
- (4) YQ-GUIDE (4 pieces)  
(made by Tokyo Eletech Corporation)
- (5) Screwdriver
- (6) M30102T-PTC User's Manual (This manual)

## 3. Specifications

Table 1 Specifications

Applicable package	48P6Q-A (48-pin 0.5-mm-pitch QFP)
Insertion/removal iterations of connector	20 times guaranteed

## 4. Usage (see Figure 2)

The M30102T-PTC can be used for debugging and board mounted evaluation in common by mounting the NQPACK048SD on the target board.

### a. For debugging

Mount the NQPACK048SD and the YQPACK048SD in that order on the foot pattern of the target board. Then attach the YQ-GUIDE's to the YQPACK048SD to connect the M30102T-PTC. (Do not use the four screws included in the YQPACK048SD package.) Finally, connect the pod probe M30100T-PRB to the M30102T-PTC.

### b. For board-mounted evaluation

Mount the M30102 MCU and the HQPACK048SD (separately available) in that order on the NQPACK048SD on the target system. Then secure the screws.

Before using the M30102T-PTC, be sure to read "7. Precautions" (page 4).

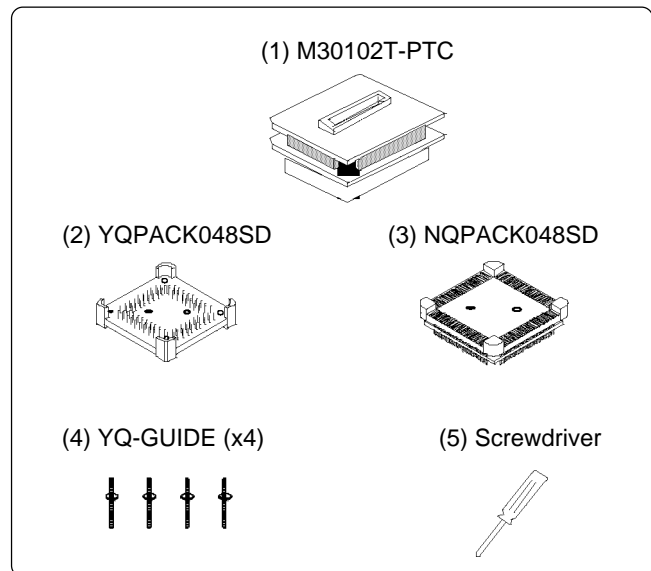


Figure 1 Package components of the M30102T-PTC

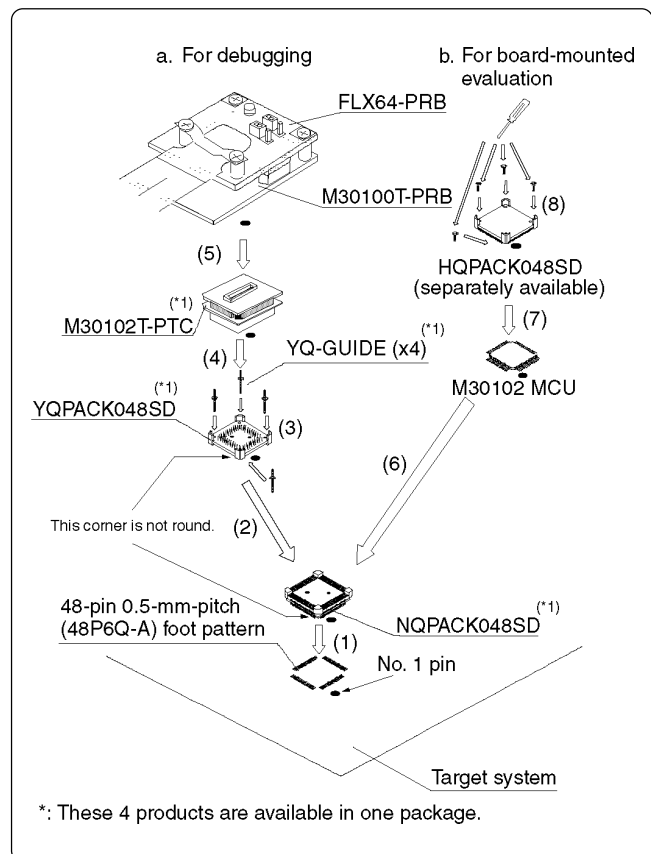


Figure 2 Usage of the M30102T-PTC

## 5. Connection Procedure (see Figure 3)

- (1) Mount the NQPACK048SD.
- (2) Mount the YQPACK048SD on the NQPACK048SD.
- (3) Secure the four corners of the YQPACK048SD with the YQ-GUIDE's. (Do not use the four screws included in the YQPACK048SD package.)
- (4) Attach the M30102T-PTC to the YQPACK048SD.
- (5) Connect the probe of the emulation pod to the M30102T-PTC.

Before using the M30102T-PTC, be sure to read "7. Precautions" (page 4).

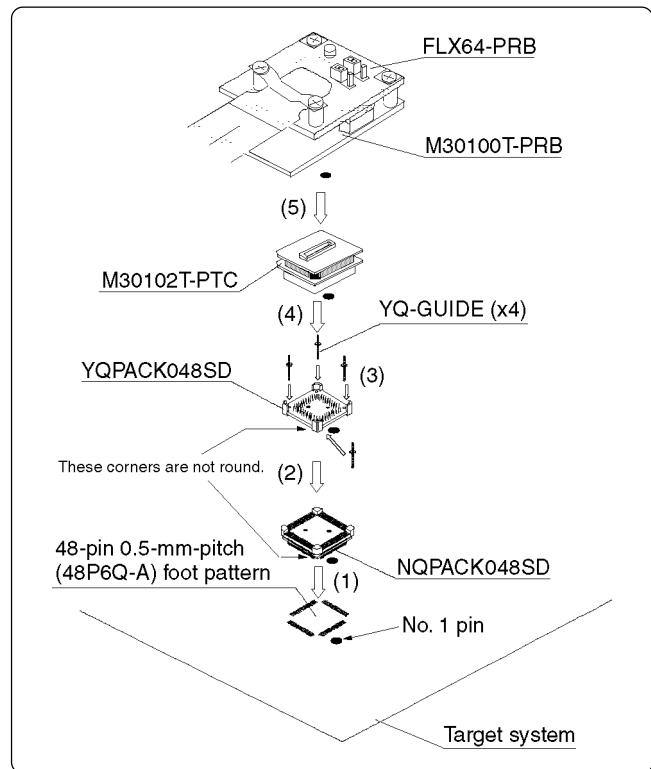


Figure 3 Connection procedure of the M30102T-PTC

## 6. External Dimensions of the M30102T-PTC and a Sample Foot Pattern (see Figure 4)

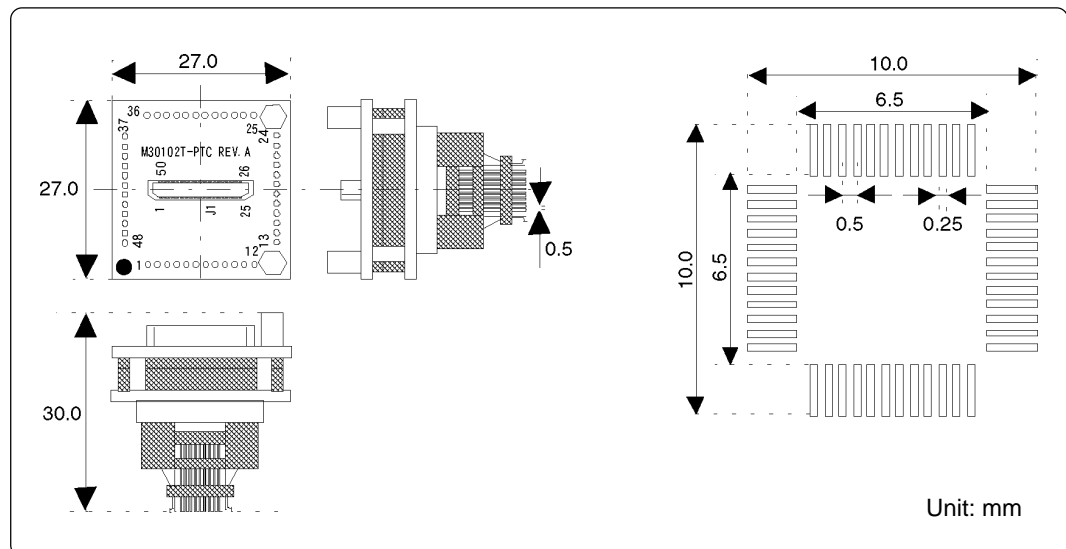


Figure 4 External dimensions of M30102T-PTC and sample foot pattern

## 7. Precautions

### CAUTION

#### Caution to Be Taken for This Product:



- When connecting the M30102T-PTC, be sure to use the included YQ-GUIDE's.

### IMPORTANT

#### Notes for This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK048SD, YQPACK048SD and HQPACK048SD, contact the following:

Daimaru Kogyo Ltd. <http://www.daimarukogyo.co.jp/>  
 Tokyo Eletech Corporation [http://www.tetc.co.jp/e\\_tet.htm](http://www.tetc.co.jp/e_tet.htm)

- For inquiries about the product or the contents of this manual, contact your local distributor.

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## 8. J1 Connectors and Pins of NQPACK

Table 2 lists the connections of the J1 connectors and the pins of the NQPACK.

Table 2 Connections of the J1 connectors and the pins of the NQPACK

Connector No.	NQPACK	Connector No.	NQPACK
J1-1	-	J1-26	-
J1-2	43	J1-27	19
J1-3	44	J1-28	20
J1-4	45	J1-29	21
J1-5	46	J1-30	22
J1-6	47	J1-31	23
J1-7	48	J1-32	24
J1-8	1	J1-33	25
J1-9	2	J1-34	26
J1-10	3	J1-35	27
J1-11	4	J1-36	28
J1-12	5	J1-37	29
J1-13	6	J1-38	30
J1-14	7	J1-39	31
J1-15	8	J1-40	32
J1-16	9	J1-41	33
J1-17	10	J1-42	34
J1-18	11	J1-43	35
J1-19	12	J1-44	36
J1-20	13	J1-45	37
J1-21	14	J1-46	38
J1-22	15	J1-47	39
J1-23	16	J1-48	40
J1-24	17	J1-49	41
J1-25	18	J1-50	42