M3062PT-80FPB

Converter Board for Connecting FLX160 to 80-pin 0.65-mm-pitch QFP (80P6S-A)

User's Manual

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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.

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1. Outline

The M3062PT-80FPB is a converter board for connecting the 160-core flexible cable FLX160 to a foot pattern for 80-pin 0.65-mm-pitch QFP (80P6S-A).

2. Package Components (See Figure 1)

(1) M3062PT-80FPB converter board 1

(2) YQPACK080SB (made by Tokyo Eletech Corporation) 1

(3) NQPACK080SB (made by Tokyo Eletech Corporation) 1

(4) YQ-GUIDE's (made by Tokyo Eletech Corporation) 4
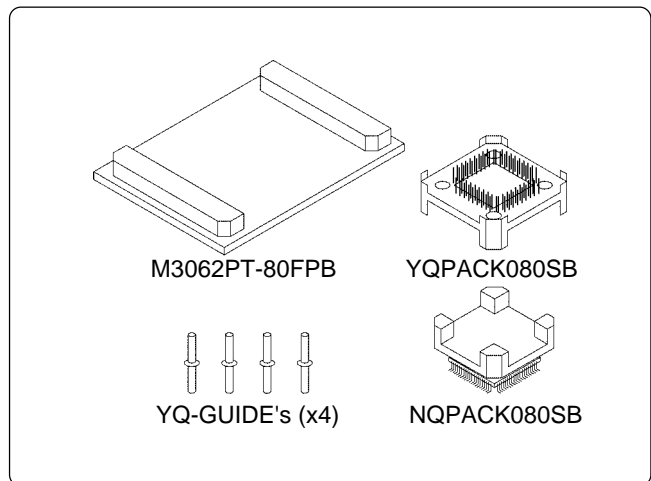
(5) M3062PT-80FPB User's Manual (this manual)

Figure 1 Package components

3. Specifications

Table 1 Specifications

Applicable package	80P6S-A (80-pin 0.65-mm-pitch QFP)
Insertion/removal iterations of connector	50 times guaranteed

4. Usage (See Figure 2)

The M3062PT-80FPB can be used for debugging and onboard evaluation in common by mounting the NQPACK080SB on the target system.

(1) For debugging

Mount the NQPACK080SB on the foot pattern of the target system and attach the YQPACK080SB on it. And connect the probe of the emulation pod to the upper connectors of the M3062PT-80FPB. Then connect the YQPACK080SB and the M3062PT-80FPB.

(2) For onboard evaluation

Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK080SB (separately available) in that order on the NQPACK080SB on the target system.

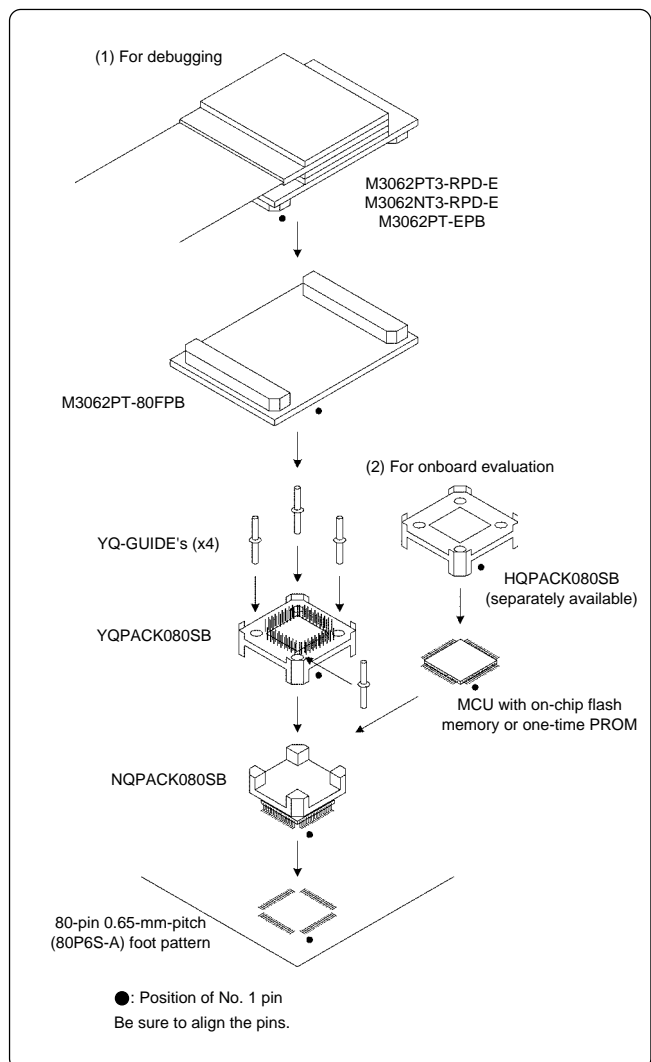Before using the M3062PT-80FPB, be sure to read "7. Precautions" on page 4.

Figure 2 Usage

5. Connection Procedure (See Figure 3)

The procedure for connecting the M3062PT-80FPB is shown below.

(1) Mount the NQPACK080SB on the target system.

(2) Attach the YQPACK080SB on the NQPACK080SB.

(3) Secure the four corners of the YQPACK080SB with the YQ-GUIDE's.

> • Do NOT use the screws included with the YQPACK080SB.
>
> • Do NOT use the screwdriver included with the NQPACK080SB that is used only for the HQPACK080SB. It is not for the YQ-GUIDE's.

(4) Attach the probe of the emulation pod to the M3062PT-80FPB.
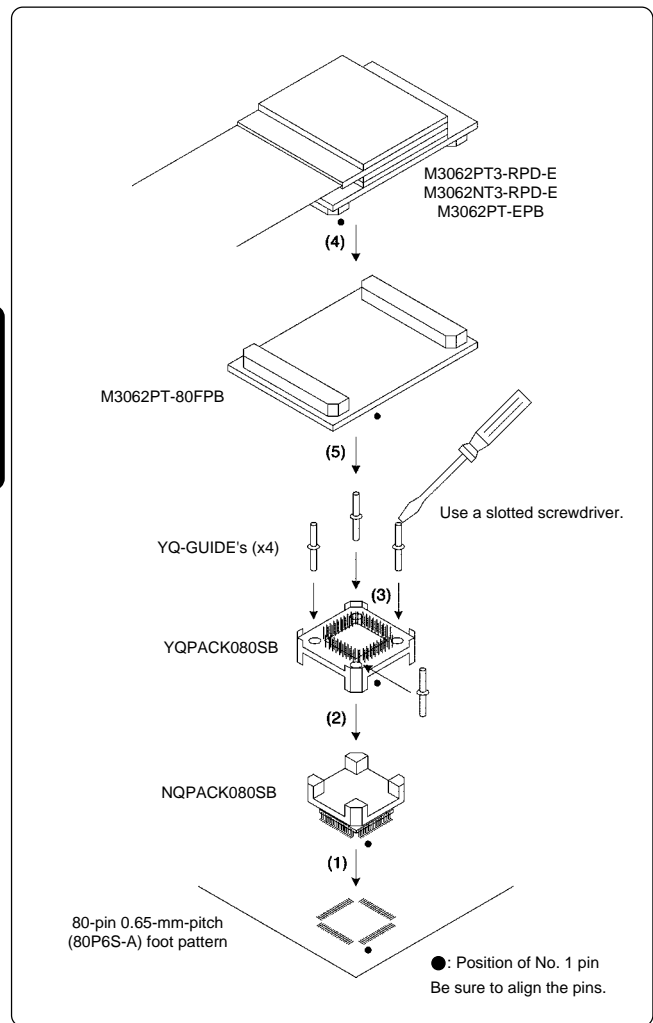
(5) Attach the M3062PT-80FPB on the YQPACK080SB.

Figure 3 Connection procedure

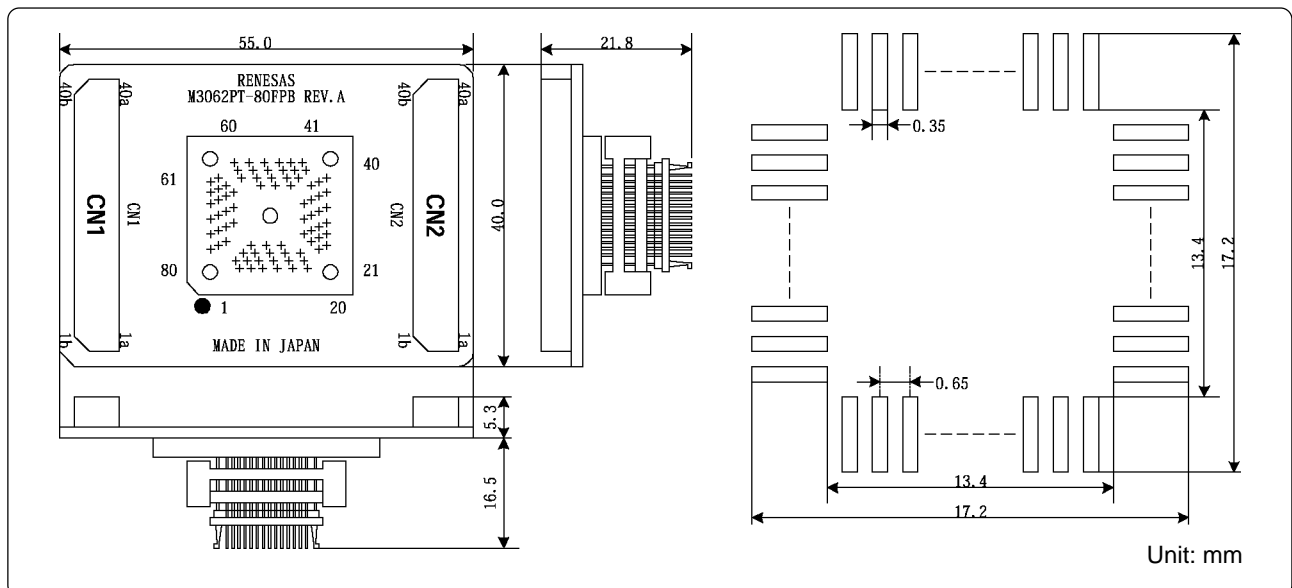## 6. External Dimensions and a Sample Foot Pattern

Figure 4 External dimensions and a sample foot pattern

7. Precautions

> ## ⚠ CAUTION
>
> ### Cautions to Be Taken for This Product:
>
> 🛑
> - To connect the YQPACK080SB, be sure to use the included YQ-GUIDE's.
> - Do NOT use the screws included with the YQPACK080SB for connecting the YQPACK080SB.

> ## IMPORTANT
>
> ### Notes on This Product:
>
> - We cannot accept any request for repair.
> - The HQPACK, NQPACK, YQPACK and YQ-Guide are trademarks of Tokyo Eletech Corporation.
> - For purchasing the NQPACK080SB, YQPACK080SB, HQPACK080SB, contact the following:
>   Tokyo Eletech Corporation http://www.tetc.co.jp/e_tet.htm
> - For inquiries about the product or the contents of this manual, contact your local distributor.
>   Renesas Tool Homepage   http://www.renesas.com/en/tools

8. Correspondence of the Pins

Table 2 Correspondence of the pins

CN1	IC1	CN1	IC1	CN2	IC1	CN2	IC1
1a	-	1b	8	1a	-	1b	9
2a	7	2b	6	2a	10	2b	11
3a	6	3b	-	3a	12	3b	13
4a	-	4b	-	4a	14	4b	15
5a	-	5b	-	5a	16	5b	17
6a	-	6b	-	6a	18	6b	19
7a	5	7b	-	7a	20	7b	21
8a	4	8b	3	8a	-	8b	-
9a	2	9b	1	9a	-	9b	-
10a	80	10b	-	10a	22	10b	-
11a	-	11b	79	11a	-	11b	23
12a	78	12b	77	12a	24	12b	13
13a	76	13b	75	13a	25	13b	11
14a	74	14b	73	14a	26	14b	27
15a	72	15b	71	15a	28	15b	29
16a	70	16b	69	16a	30	16b	31
17a	68	17b	-	17a	-	17b	-
18a	-	18b	-	18a	-	18b	-
19a	-	19b	-	19a	32	19b	33
20a	-	20b	-	20a	34	20b	-
21a	-	21b	-	21a	-	21b	35
22a	-	22b	-	22a	-	22b	-
23a	-	23b	67	23a	-	23b	-
24a	66	24b	65	24a	-	24b	-
25a	64	25b	-	25a	36	25b	37
26a	-	26b	-	26a	38	26b	39
27a	-	27b	-	27a	-	27b	-
28a	63	28b	62	28a	-	28b	-
29a	61	29b	60	29a	-	29b	-
30a	-	30b	-	30a	-	30b	-
31a	-	31b	-	31a	-	31b	40
32a	-	32b	-	32a	-	32b	41
33a	-	33b	-	33a	-	33b	42
34a	-	34b	-	34a	43	34b	44
35a	59	35b	58	35a	45	35b	46
36a	57	36b	56	36a	47	36b	48
37a	55	37b	54	37a	49	37b	50
38a	53	38b	52	38a	-	38b	-
39a	11	39b	51	39a	-	39b	-
40a	13	40b	-	40a	-	40b	-

("-": No connection)