

R0E0100TNPFK00

Converter Board for Connecting R0E001000FLX10 to 100-pin 0.5mm pitch LQFP

User's Manual

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1. Outline

The R0E0100TNPFK00 is a converter board for connecting the flexible cable R0E001000FLX10 to a foot pattern for 100-pin 0.5mm pitch LQFP (PLQP0100KB-A).

2. Package Components (See Figure 1)

Check to see if the R0E0100TNPFK00 package has all the following contents before using this product.

- (1) R0E0100TNPFK00 converter board 1 pc.
- (2) YQPACK100SD (made by Tokyo Eletech Corporation) 1 pc.
- (3) NQPACK100SD-ND (made by Tokyo Eletech Corporation) 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) 4 pcs.
- (5) R0E0100TNPFK00 User's Manual (this manual)

3. Specifications

Table 1 Specifications

Applicable package	PLQP0100KB-A: formerly 100P6Q-A (100-pin 0.5mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

4. Usage (See Figure 2)

The R0E0100TNPFK00 can be used for debugging and board-mounted evaluation in common by mounting the NQPACK100SD-ND on the user system.

- (1) For debugging
Mount the NQPACK100SD-ND on the foot pattern of the user system and attach the YQPACK100SD on it. In addition, connect the R0E0100TNPFK00 to the YQPACK100SD, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E0100TNPFK00.
- (2) For onboard evaluation
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK100SD (not included) in order on the NQPACK100SD-ND on the user system.

Before using the R0E0100TNPFK00, be sure to read "7. Precautions" on page 4.

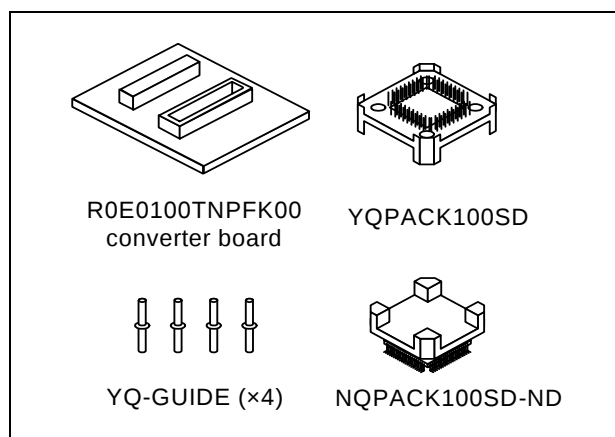


Figure 1 Package components of the R0E0100TNPFK00

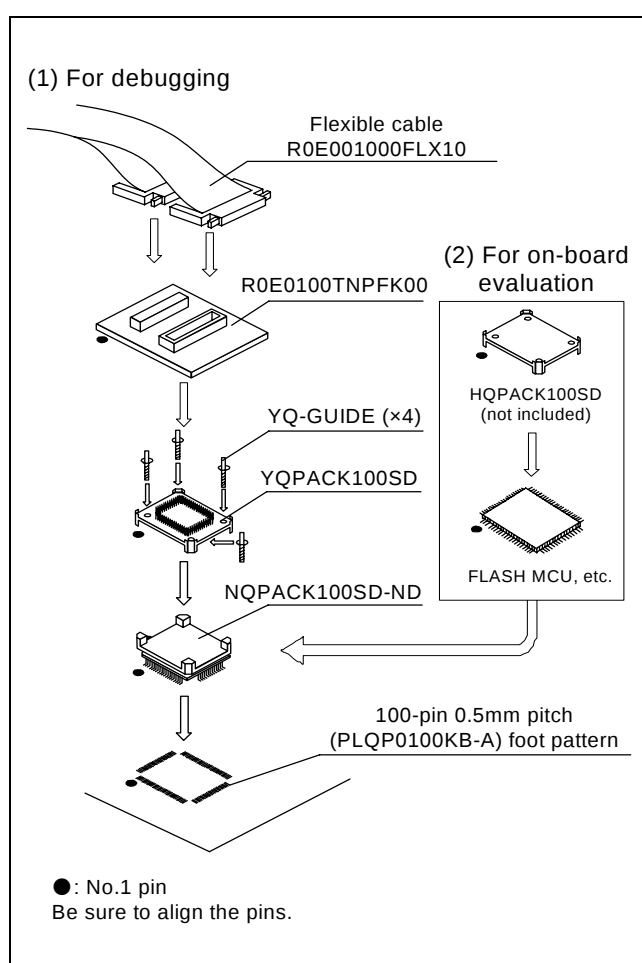


Figure 2 Usage of the R0E0100TNPFK00

5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E0100TNPFK00 is shown below.

- (1) Mount the NQPACK100SD-ND on the user system.
- (2) Attach the YQPACK100SD on the NQPACK100SD-ND.
- (3) Secure the four corners of the YQPACK100SD with the YQ-GUIDEs.

- **Do not use the screws included with the YQPACK100SD for fixing the YQPACK100SD.**
- **Do NOT use the screwdriver included with the NQPACK100SD-ND for fixing the YQ-GUIDEs. That is used only for the HQPACK100SD.**

- (4) Mount the R0E0100TNPFK00 on the YQPACK100SD.
- (5) Attach the flexible cable R0E001000FLX10 of the emulator to the R0E0100TNPFK00.

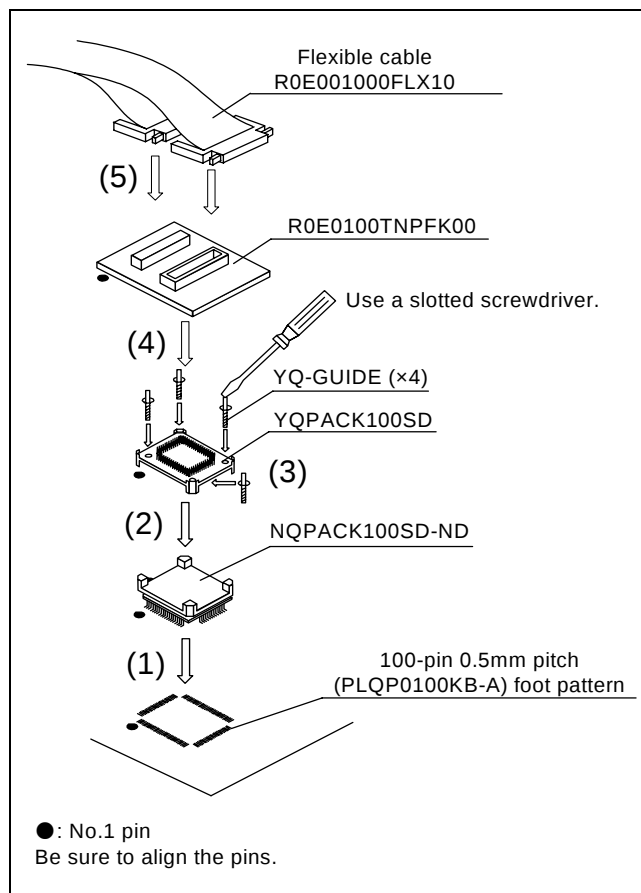


Figure 3 Connection procedure of the R0E0100TNPFK00

6. External Dimensions and a Sample Foot Pattern

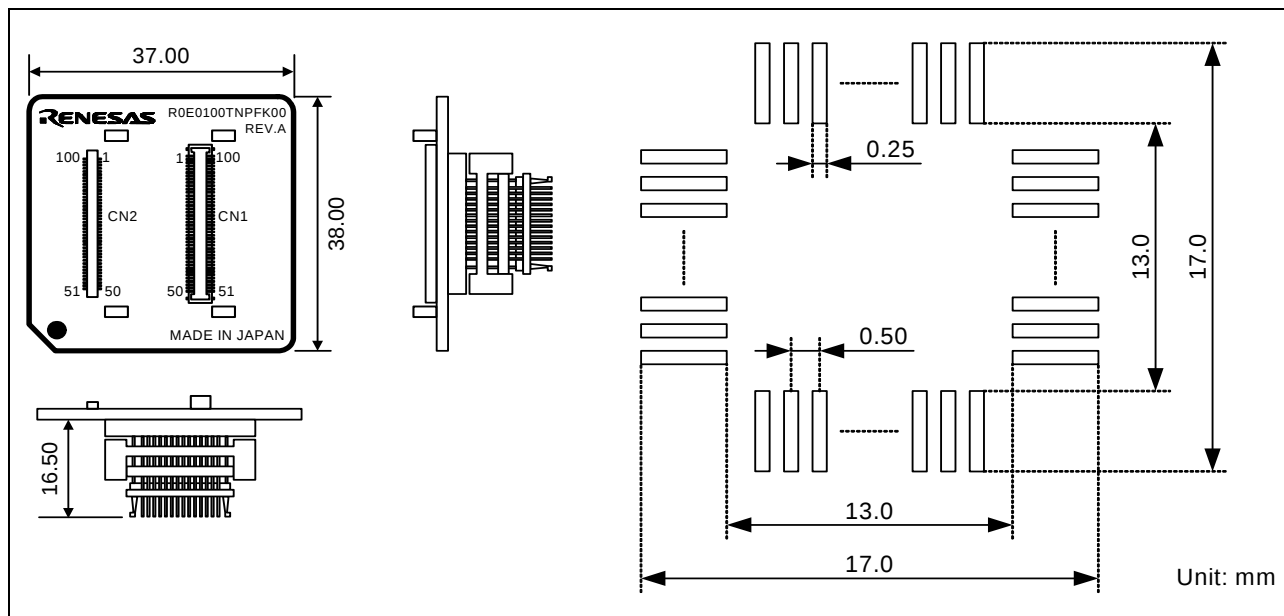


Figure 4 External dimensions and a sample foot pattern of the R0E0100TNPFK00

7. Precautions

CAUTION

Cautions to Be Taken for This Product:



- When connecting the YQPACK100SD, be sure to use the included YQ-GUIDEs.
- Do NOT use the screws included with the YQPACK100SD for connecting the YQPACK100SD.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK100SD-ND, YQPACK100SD and HQPACK100SD, contact the following:
Tokyo Eletech Corporation http://www.tetc.co.jp/e_index.htm
- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/tools>

8. Correspondence of Connectors CN1 and CN2

Table 2 Correspondence of the connectors

CN1 Pin No.	IC1	CN1 Pin No.	IC1	CN2 Pin No.	IC1	CN2 Pin No.	IC1
1	-	100	-	1	-	100	-
2	-	99	-	2	-	99	-
3	-	98	-	3	-	98	-
4	-	97	-	4	-	97	-
5	57	96	56	5	-	96	-
6	58	95	55	6	-	95	-
7	59	94	54	7	-	94	-
8	60	93	53	8	-	93	-
9	61	92	52	9	-	92	-
10	62	91	51	10	-	91	-
11	63	90	50	11	-	90	-
12	64	89	49	12	-	89	-
13	65	88	48	13	-	88	-
14	66	87	47	14	-	87	-
15	-	86	-	15	-	86	-
16	67	85	46	16	-	85	77
17	68	84	45	17	-	84	78
18	69	83	44	18	-	83	79
19	70	82	43	19	-	82	80
20	71	81	42	20	-	81	81
21	72	80	41	21	-	80	82
22	73	79	40	22	-	79	83
23	74	78	39	23	-	78	84
24	75	77	38	24	-	77	85
25	76	76	37	25	-	76	86
26	-	75	-	26	-	75	-
27	97	74	36	27	-	74	87
28	98	73	35	28	-	73	88
29	99	72	34	29	-	72	89
30	100	71	33	30	-	71	90
31	1	70	32	31	-	70	91
32	2	69	31	32	-	69	92
33	3	68	30	33	-	68	93
34	4	67	29	34	-	67	94
35	5	66	28	35	-	66	95
36	6	65	27	36	-	65	96
37	-	64	-	37	-	64	-
38	7	63	26	38	-	63	-
39	8	62	25	39	-	62	-
40	9	61	24	40	-	61	-
41	10	60	23	41	-	60	-
42	11	59	22	42	-	59	-
43	12	58	21	43	-	58	-
44	13	57	20	44	-	57	-
45	14	56	19	45	-	56	-
46	15	55	18	46	-	55	-
47	16	54	17	47	-	54	-
48	-	53	-	48	-	53	-
49	-	52	-	49	-	52	-
50	-	51	-	50	-	51	-

(-:No connection or signals in the emulator)