

### R0E0144TNPFK00

REJ10J2107-0200

Rev.2.00

Converter Board for Connecting R0E001000FLX10 to 144-pin 0.5mm pitch LQFP

Apr 16, 2010

### 1. Outline

The R0E0144TNPFK00 is a converter board for connecting the flexible cable R0E001000FLX10 to a foot pattern for 144-pin 0.5mm pitch LQFP (PLQP0144KA-A).

### 2. Package Components (See Figure 1)

Check to see if the R0E0144TNPFK00 package has all the following contents before using this product.

- (1) R0E0144TNPFK00 converter board ..... 1 pc.
- (2) YQPACK144SD (made by Tokyo Eletech Corporation) ..... 1 pc.
- (3) NQPACK144SD-ND (made by Tokyo Eletech Corporation) ..... 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) ..... 4 pcs.
- (5) R0E0144TNPFK00 User's Manual (this manual)

### 3. Specifications

Table 1 Specifications

Applicable package	PLQP0144KA-A (144-pin 0.5mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

### 4. Usage (See Figure 2)

The R0E0144TNPFK00 can be used for debugging and on-board evaluation in common by mounting the NQPACK144SD-ND on the user system.

- (1) For debugging  
Mount the NQPACK144SD-ND on the foot pattern of the user system and attach the YQPACK144SD on it. In addition, connect the R0E0144TNPFK00 to the YQPACK144SD, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E0144TNPFK00.
- (2) For on-board evaluation  
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK144SD (not included) in order on the NQPACK144SD-ND on the user system.

Before using the R0E0144TNPFK00, be sure to read the precautions on page 3.

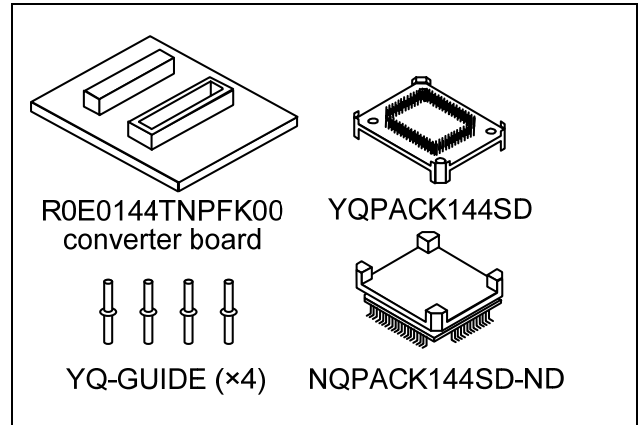


Figure 1 Package components of the R0E0144TNPFK00

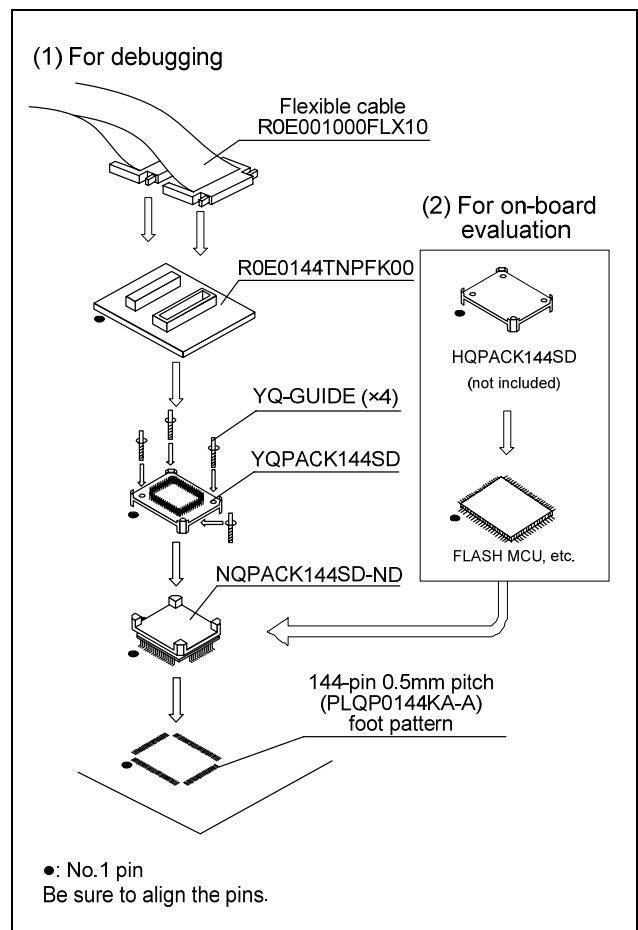


Figure 2 Usage of the R0E0144TNPFK00

\* NQPACK, YQPACK, YQSOCKET, YQ-GUIDE, HQPACK, TQPACK, TQSOCKET, CSSOCKET, CSPLUG/W and LSPACK are trademarks of Tokyo Eletech Corporation.

### 5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E0144TNPFK00 is shown below.

- (1) Mount the NQPACK144SD-ND on the user system.
- (2) Attach the YQPACK144SD on the NQPACK144SD-ND.
- (3) Secure the four corners of the YQPACK144SD with the YQ-GUIDEs.

- Do NOT use the screws included with the YQPACK144SD for fixing the YQPACK144SD.
- Do NOT use the screwdriver included with the NQPACK144SD-ND for fixing the YQ-GUIDEs. That is used only for the HQPACK144SD.

- (4) Mount the R0E0144TNPFK00 on the YQPACK144SD.
- (5) Attach the flexible cable R0E001000FLX10 of the emulator to the R0E0144TNPFK00.

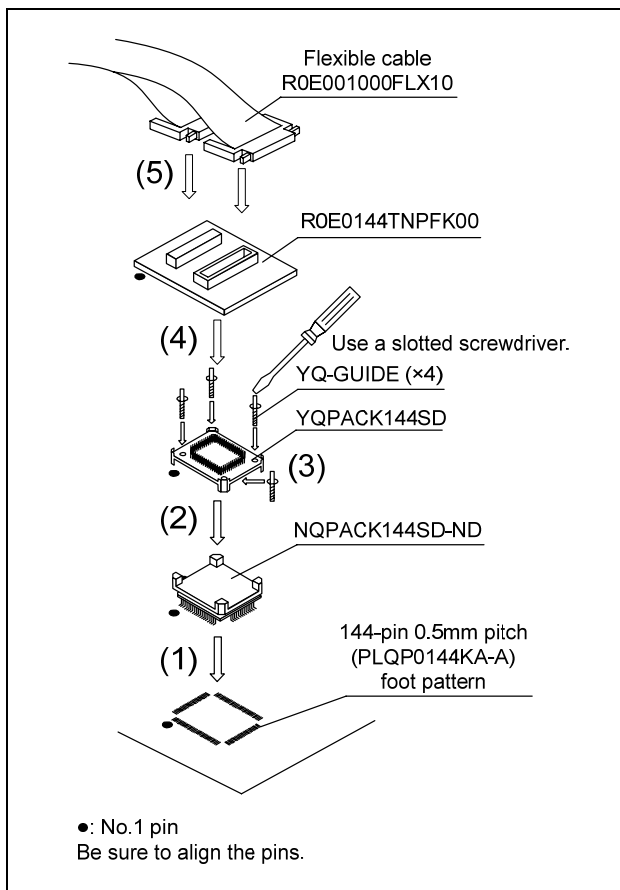


Figure 3 Connection procedure of the R0E0144TNPFK00

### 6. External Dimensions and a Sample Foot Pattern

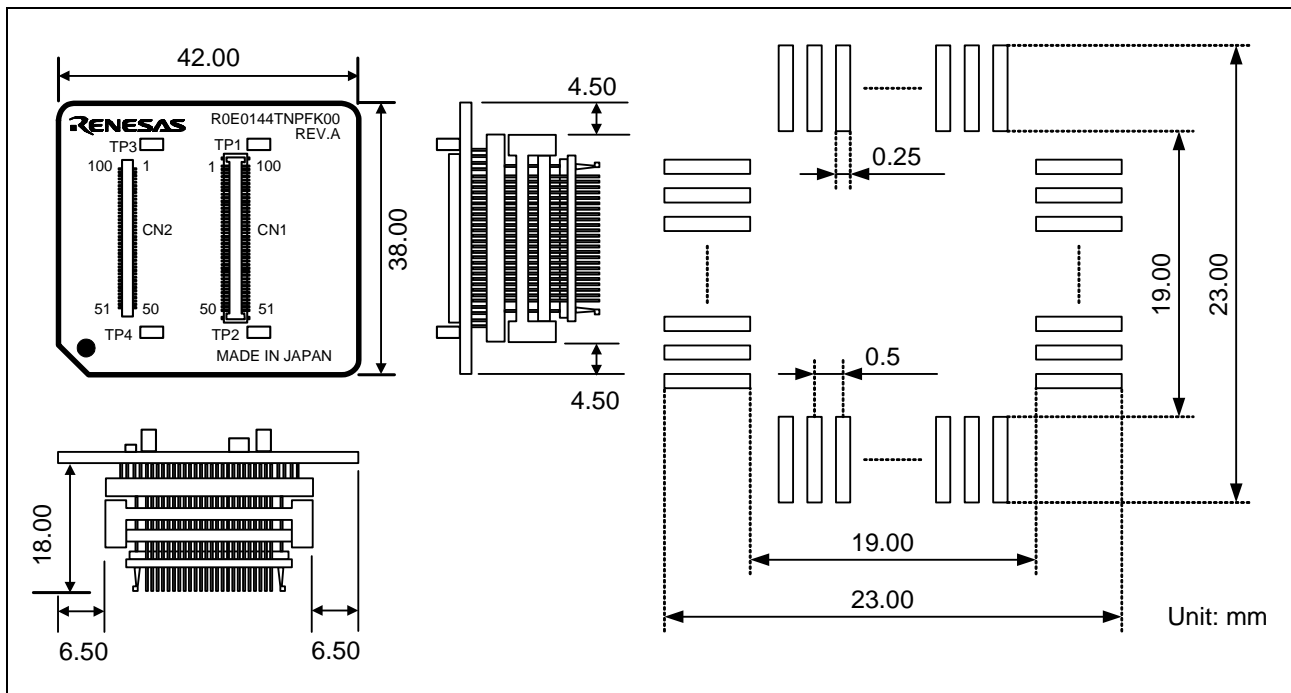


Figure 4 External dimensions and a sample foot pattern of the R0E0144TNPFK00

## 7. Precautions and WEEE Directive

**⚠ CAUTION**

Cautions to Be Taken for This Product:



- When connecting the YQPACK144SD, be sure to use the included YQ-GUIDES.
- Do not use the screws included with the YQPACK144SD for connecting the YQPACK144SD.

**IMPORTANT**

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK144SD-ND, YQPACK144SD and HQPACK144SD, contact the following:  
Tokyo Eletech Corporation [http://www.tetc.co.jp/e\\_index.htm](http://www.tetc.co.jp/e_index.htm)

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## 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	75	96	74	5	-	96	107
6	76	95	73	6	-	95	108
7	77	94	72	7	-	94	109
8	78	93	71	8	-	93	110
9	79	92	70	9	-	92	111
10	80	91	69	10	-	91	112
11	81	90	68	11	-	90	113
12	82	89	67	12	-	89	114
13	83	88	66	13	106	88	115
14	84	87	65	14	105	87	116
15	-	86	-	15	-	86	-
16	85	85	64	16	104	85	117
17	86	84	63	17	103	84	118
18	87	83	62	18	102	83	119
19	88	82	61	19	101	82	120
20	89	81	60	20	100	81	121
21	90	80	59	21	99	80	122
22	91	79	58	22	98	79	123
23	92	78	57	23	97	78	124
24	93	77	56	24	96	77	125
25	94	76	55	25	95	76	126
26	-	75	-	26	-	75	-
27	15	74	54	27	14	74	127
28	16	73	53	28	13	73	128
29	17	72	52	29	12	72	129
30	18	71	51	30	11	71	130
31	19	70	50	31	10	70	131
32	20	69	49	32	9	69	132
33	21	68	48	33	8	68	133
34	22	67	47	34	7	67	134
35	23	66	46	35	6	66	135
36	24	65	45	36	5	65	136
37	-	64	-	37	-	64	-
38	25	63	44	38	4	63	137
39	26	62	43	39	3	62	138
40	27	61	42	40	-	61	139
41	28	60	41	41	-	60	140
42	29	59	40	42	-	59	141
43	30	58	39	43	-	58	142
44	31	57	38	44	-	57	143
45	32	56	37	45	-	56	144
46	33	55	36	46	-	55	1
47	34	54	35	47	-	54	2
48	-	53	-	48	-	53	-
49	-	52	-	49	-	52	-
50	-	51	-	50	-	51	-

(-:No connection or signals in the emulator)

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