R0E424270CFKE0

Converter Board for Connecting H8S/2400 Series 120-pin 0.5mm pitch LQFP

REJ10J2106-0200
Rev.2.00
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1. Outline

The R0E424270CFKE0 is a converter board for connecting the flexible cable R0E001000FLX10 to a foot pattern for 120-pin 0.5mm pitch LQFP (PLQP0120KA-A).

2. Package Components (See Figure 1)

Check to see if the R0E424270CFKE0 package has all the following contents before using this product.

(1) R0E424270CFKE0 converter board..... 1 pc.
(2) YQPACK120SD (made by Tokyo Eletech Corporation)..... 1 pc.
(3) NQPACK120SD (made by Tokyo Eletech Corporation) ..... 1 pc.
(4) YQ-GUIDE (made by Tokyo Eletech Corporation) .....4 pcs.
(5) R0E424270CFKE0 User's Manual (this manual)

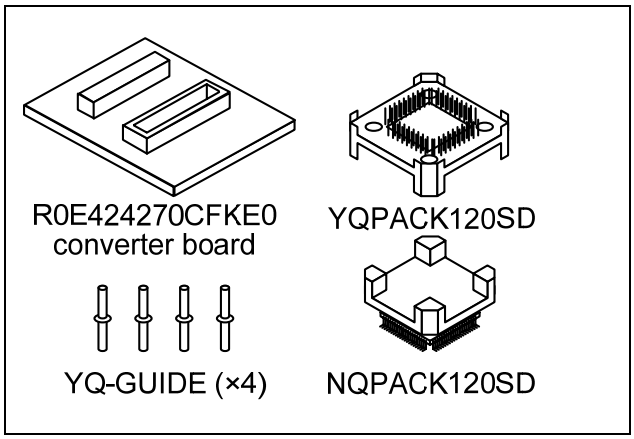

Figure 1 Package components of the R0E424270CFKE0

3. Specifications

Table 1 Specifications

Applicable package	PLQP0120KA-A (120-pin 0.5mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

4. Usage (See Figure 2)

The R0E424270CFKE0 can be used for debugging and on-board evaluation in common by mounting the NQPACK120SD on the user system.

(1) For debugging
Mount the NQPACK120SD on the foot pattern of the user system and attach the YQPACK120SD on it. In addition, connect the R0E424270CFKE0 to the YQPACK120SD, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E424270CFKE0.

(2) For on-board evaluation
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK120SD (not included) in order on the NQPACK120SD on the user system.

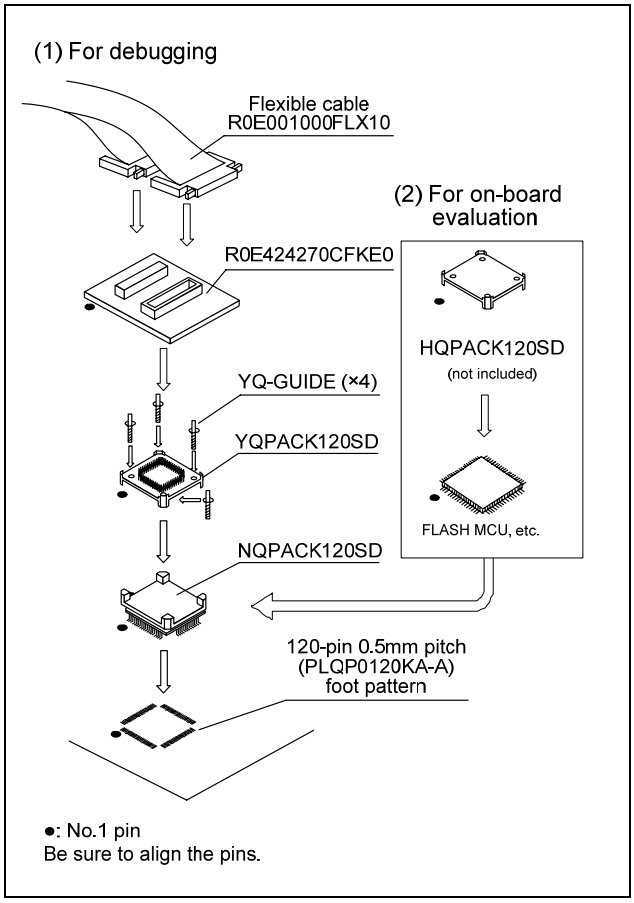

Figure 2 Usage of the R0E424270CFKE0

Before using the R0E424270CFKE0, be sure to read the precautions on page 3.

* 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 R0E424270CFKE0 is shown below.

(1) Mount the NQPACK120SD on the user system.
(2) Attach the YQPACK120SD on the NQPACK120SD.
(3) Secure the four corners of the YQPACK120SD with the YQ-GUIDEs.

- **Do NOT use the screws included with the YQPACK120SD for fixing the YQPACK120SD.**
- **Do NOT use the screwdriver included with the NQPACK120SD for fixing the YQ-GUIDEs. That is used only for the HQPACK120SD.**

(4) Mount the R0E424270CFKE0 on the YQPACK120SD.
(5) Attach the flexible cable R0E001000FLX10 of the emulator to the R0E424270CFKE0.

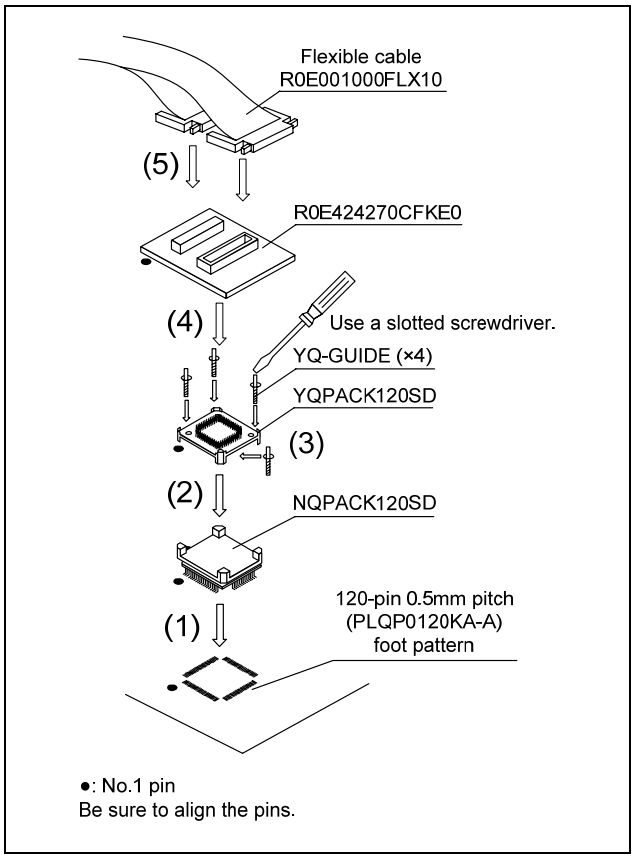

Figure 3 Connection procedure of the R0E424270CFKE0

6. External Dimensions and a Sample Foot Pattern

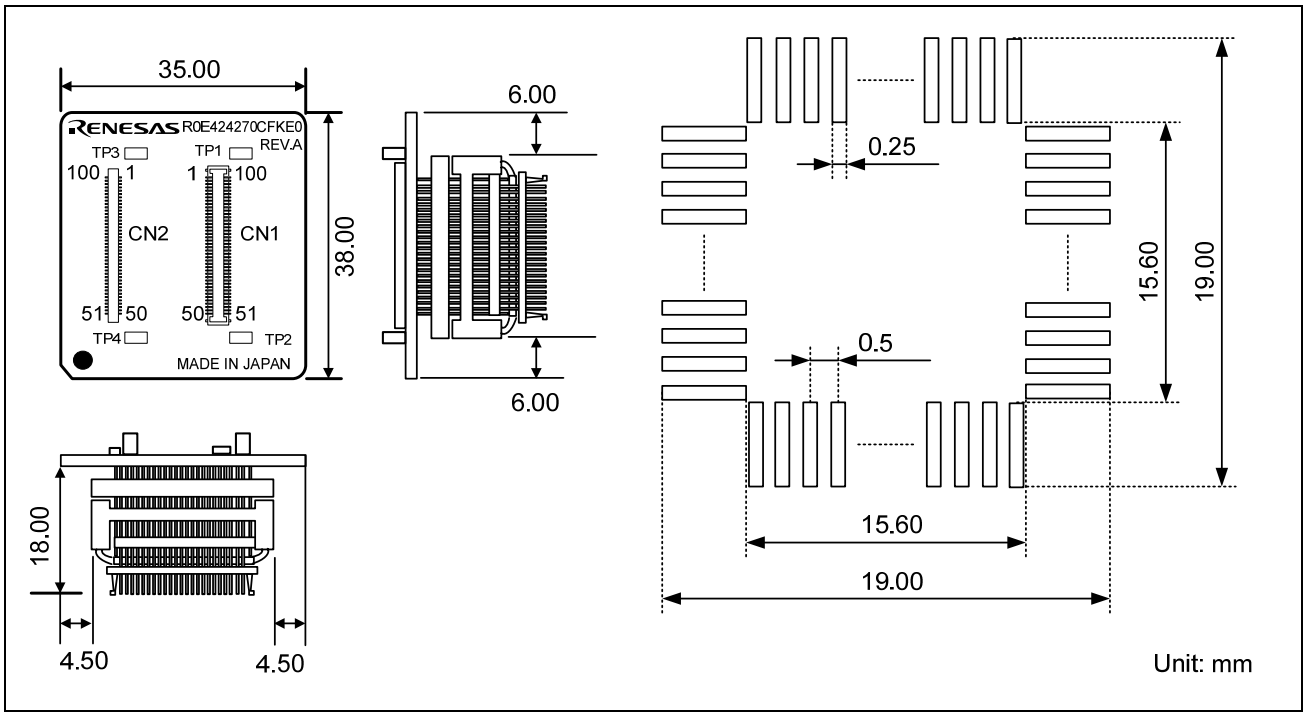

Figure 4 External dimensions and a sample foot pattern of the R0E424270CFKE0

7. Precautions and WEEE Directive

⚠ CAUTION

Cautions to Be Taken for This Product:

- When connecting the YQPACK120SD, be sure to use the included YQ-GUIDEs.
- Do not use the screws included with the YQPACK120SD for connecting the YQPACK120SD.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK120SD, YQPACK120SD and HQPACK120SD contact the following:
  Tokyo Eletech Corporation http://www.tetc.co.jp/e_index.htm

Disposal Instruction (This is only valid in the European Union.):

Renesas development tools and products are directly covered by the European Union's Waste Electrical and Electronic Equipment, (WEEE), Directive 2002/96/EC. As a result, this equipment, including all accessories, must not be disposed of as household waste but through your locally recognised recycling or disposal schemes. As part of our commitment to environmental responsibility Renesas also offers to take back the equipment and has implemented a Tools Product Recycling Program for customers in Europe. This allows you to return equipment to Renesas for disposal through our approved Producer Compliance Scheme. To register for the program, click here "http://www.renesas.com/weee".

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

(-:No connection or signals in the emulator)