

## R0E53036ACFG40

REJ10J1897-0200

Rev.2.00

Converter Board for Connecting R8C/36A and /36C Groups 64-pin 0.8mm pitch LQFP

Apr 16, 2010

### 1. Outline

The R0E53036ACFG40 is a converter board for connecting the signals of the MCU unit R0E521300MCU00 for R8C Family R8C/3x Series to a foot pattern for 64-pin 0.8mm pitch LQFP of R8C/36A and /36C Groups.

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

Check to see if the R0E53036ACFG40 package has all the following contents before using this product.

- (1) R0E53036ACFG40 converter board ..... 1 pc.
- (2) YQPACK064SA (made by Tokyo Eletech Corporation) ..... 1 pc.
- (3) NQPACK064SA160 (made by Tokyo Eletech Corporation) ..... 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) ..... 4 pcs.
- (5) R0E53036ACFG40 User's Manual (this manual)

### 3. Specifications

Table 1 Specifications

Applicable package	PLQP0064GA-A (64-pin 0.8mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

### 4. Usage (See Figure 2)

The R0E53036ACFG40 can be used for debugging and on-board evaluation in common by mounting the NQPACK064SA160 on the user system.

- (1) For debugging  
Mount the NQPACK064SA160 on the foot pattern of the user system and attach the YQPACK064SA on it. In addition, connect the R0E53036ACFG40 to the YQPACK064SA, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E53036ACFG40.
- (2) For on-board evaluation  
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK064SA160 (not included) in order on the NQPACK064SA160 on the user system.

Before using the R0E53036ACFG40, be sure to read the precautions on page 3.

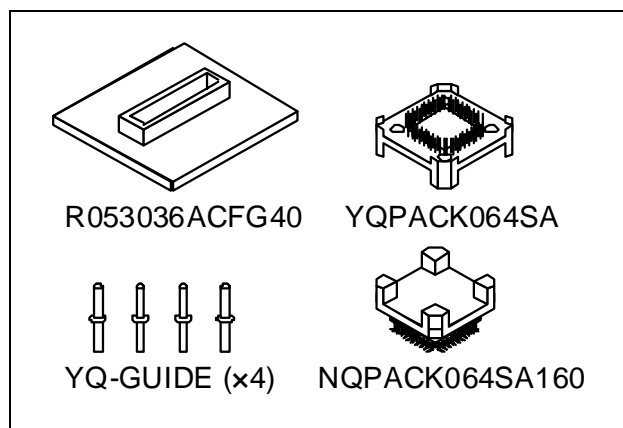


Figure 1 Package components of the R0E53036ACFG40

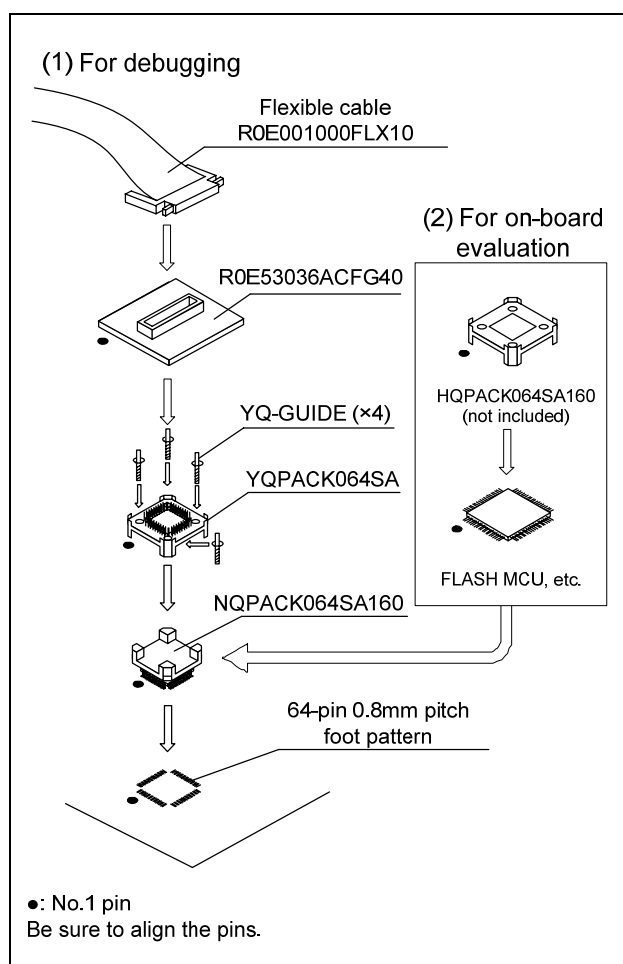


Figure 2 Usage of the R0E53036ACFG40

\* 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 R0E53036ACFG40 is shown below.

- (1) Mount the NQPACK064SA160 on the user system.
- (2) Attach the YQPACK064SA on the NQPACK064SA160.
- (3) Secure the four corners of the YQPACK064SA with the YQ-GUIDEs.

- Do NOT use the screws included with the YQPACK064SA for fixing the YQPACK064SA.
- Do NOT use the screwdriver included with the NQPACK064SA160 for fixing the YQ-GUIDEs. That is used only for the HQPACK064SA160.

- (4) Mount the R0E53036ACFG40 on the YQPACK064SA.
- (5) Attach the flexible cable R0E001000FLX10 of the emulator to the R0E53036ACFG40.

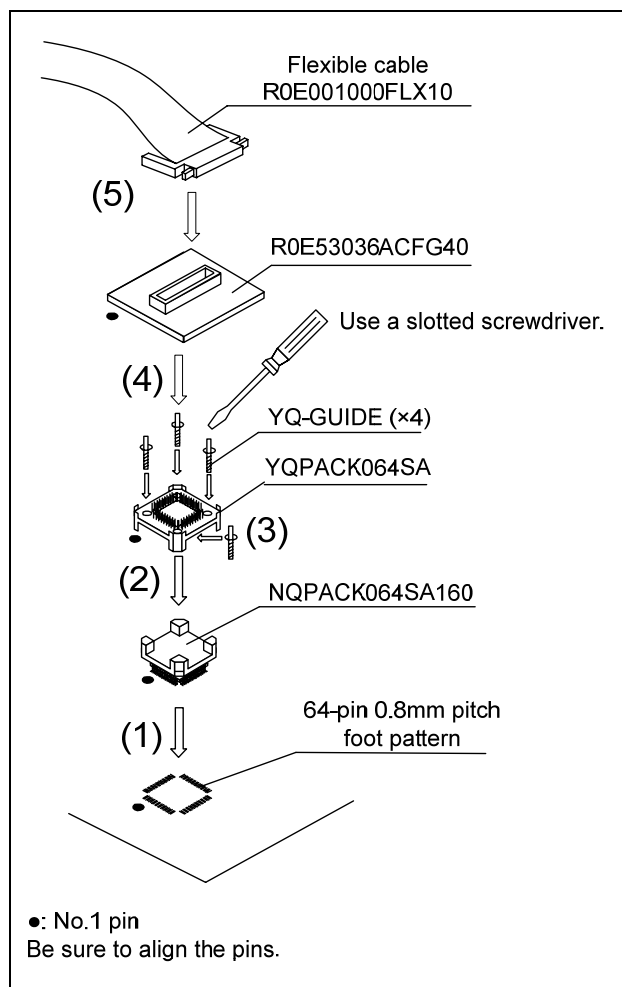


Figure 3 Connection procedure of the R0E53036ACFG40

## 6. External Dimensions and a Sample Foot Pattern

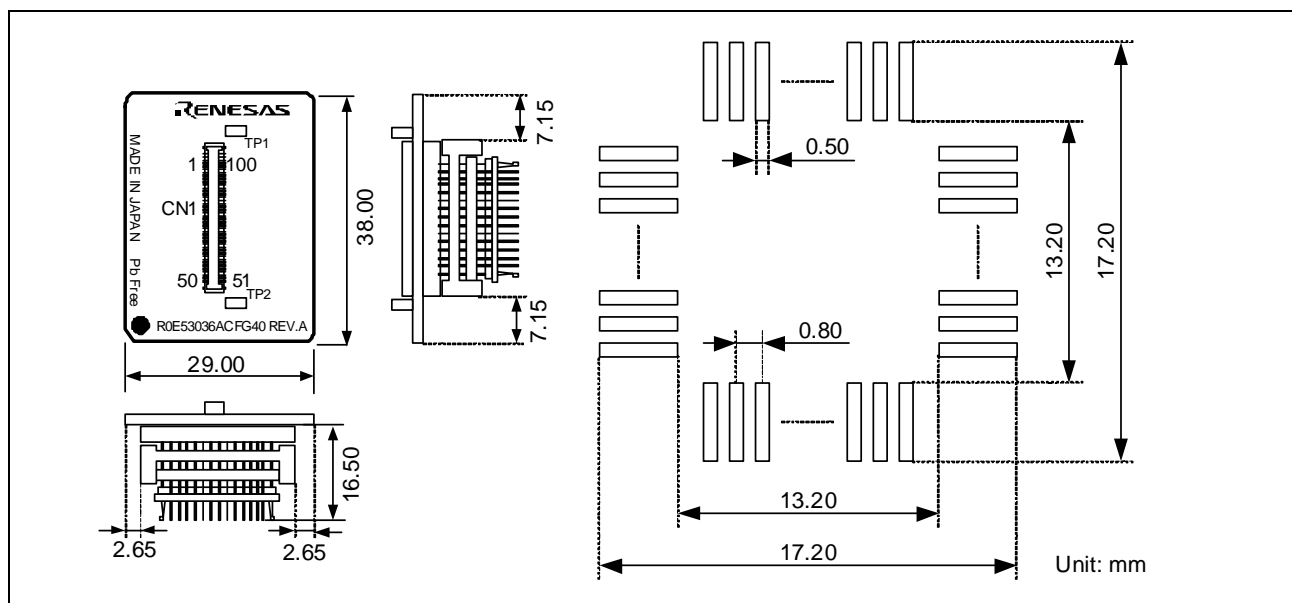


Figure 4 External dimensions and a sample foot pattern of the R0E53036ACFG40

## 7. Precautions and WEEE Directive

### CAUTION

Cautions to Be Taken for This Product:



- When connecting the YQPACK064SA, be sure to use the included YQ-GUIDEs.
- Do not use the screws included with the YQPACK064SA for connecting the YQPACK064SA.

### IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK064SA160, YQPACK064SA and HQPACK064SA160, 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

Table 2 Correspondence of the connectors

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

(-:No connection or signals in the emulator)

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