

R0E535M00CFK40

REJ10J1923-0200

Rev.2.00

Converter Board for Connecting M16C/5L and M16C/5M Group 64-pin 0.5mm pitch LQFP

Apr 16, 2010

1. Outline

The R0E535M00CFK40 is a converter board for connecting the flexible cable R0E001000FLX10 to a foot pattern for 64-pin 0.5mm pitch LQFP (PLQP0064KB-A).

2. Package Components (See Figure 1)

Check to see if the R0E535M00CFK40 package has all the following contents before using this product.

- (1) R0E535M00CFK40 converter board..... 1 pc.
- (2) YQPACK064SD (made by Tokyo Eletech Corporation) 1 pc.
- (3) NQPACK064SD-ND (made by Tokyo Eletech Corporation) 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) 4 pcs.
- (5) R0E535M00CFK40 User's Manual (this manual)

3. Specifications

Table 1 Specifications

| | |
|---|--|
| Applicable package | PLQP0064KB-A: formerly 64P6Q-A (64-pin 0.5mm pitch LQFP) |
| Insertion/removal iterations of connector | 50 times guaranteed |

4. Usage (See Figure 2)

The R0E535M00CFK40 can be used for debugging and on-board evaluation in common by mounting the NQPACK064SD-ND on the user system.

- (1) For debugging
Mount the NQPACK064SD-ND on the foot pattern of the user system and attach the YQPACK064SD on it. In addition, connect the R0E535M00CFK40 to the YQPACK064SD, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E535M00CFK40.
- (2) For on-board evaluation
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK064SD (not included) in order on the NQPACK064SD-ND on the user system.

Before using the R0E535M00CFK40, be sure to read the precautions on page 3.

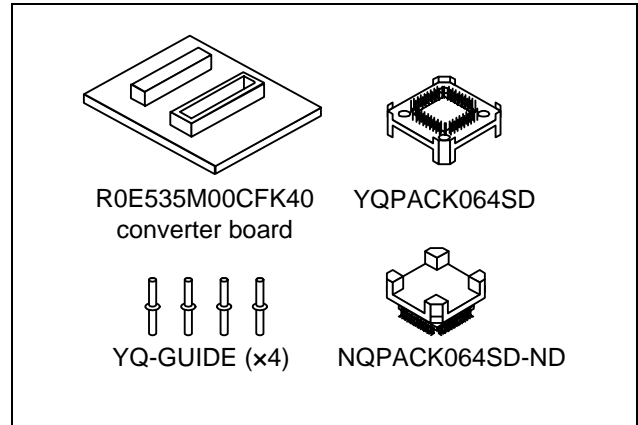


Figure 1 Package components of the R0E535M00CFK40

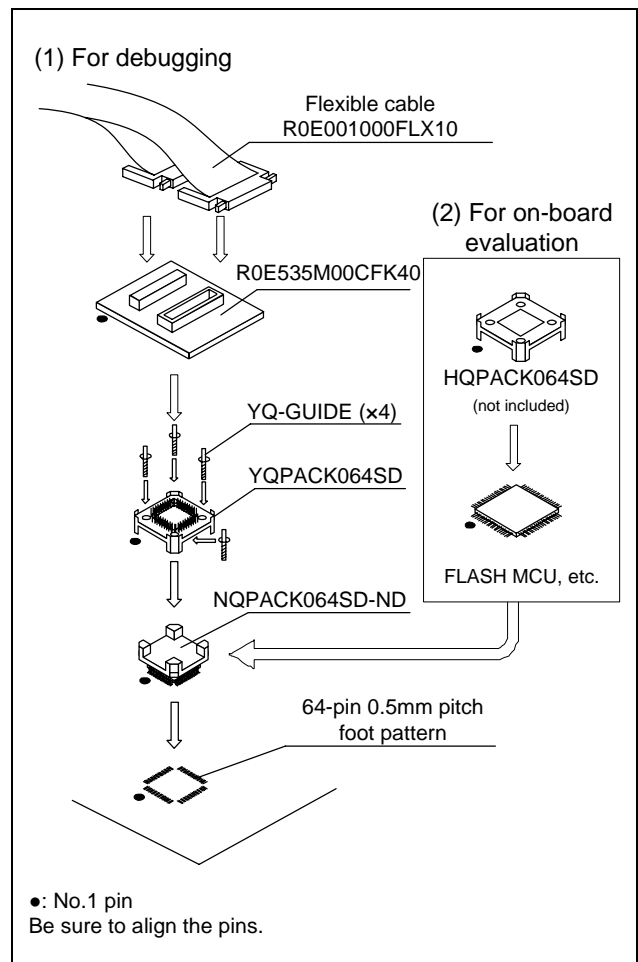


Figure 2 Usage of the R0E535M00CFK40

* 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 R0E535M00CFK40 is shown below.

- (1) Mount the NQPACK064SD-ND on the user system.
- (2) Attach the YQPACK064SD on the NQPACK064SD-ND.
- (3) Secure the four corners of the YQPACK064SD with the YQ-GUIDEs.

- Do NOT use the screws included with the YQPACK064SD for fixing the YQPACK064SD.
- Do NOT use the screwdriver included with the NQPACK064SD-ND for fixing the YQ-GUIDEs. That is used only for the HQPACK064SD.

- (4) Mount the R0E535M00CFK40 on the YQPACK064SD.
- (5) Attach the flexible cable R0E001000FLX10 of the emulator to the R0E535M00CFK40.

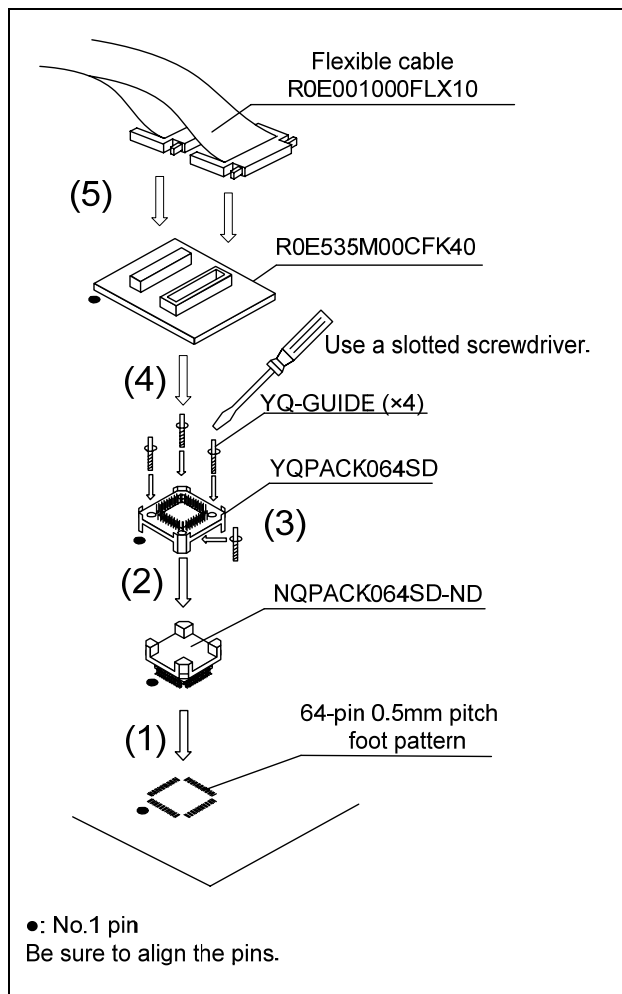


Figure 3 Connection procedure of the R0E535M00CFK40

6. External Dimensions and a Sample Foot Pattern

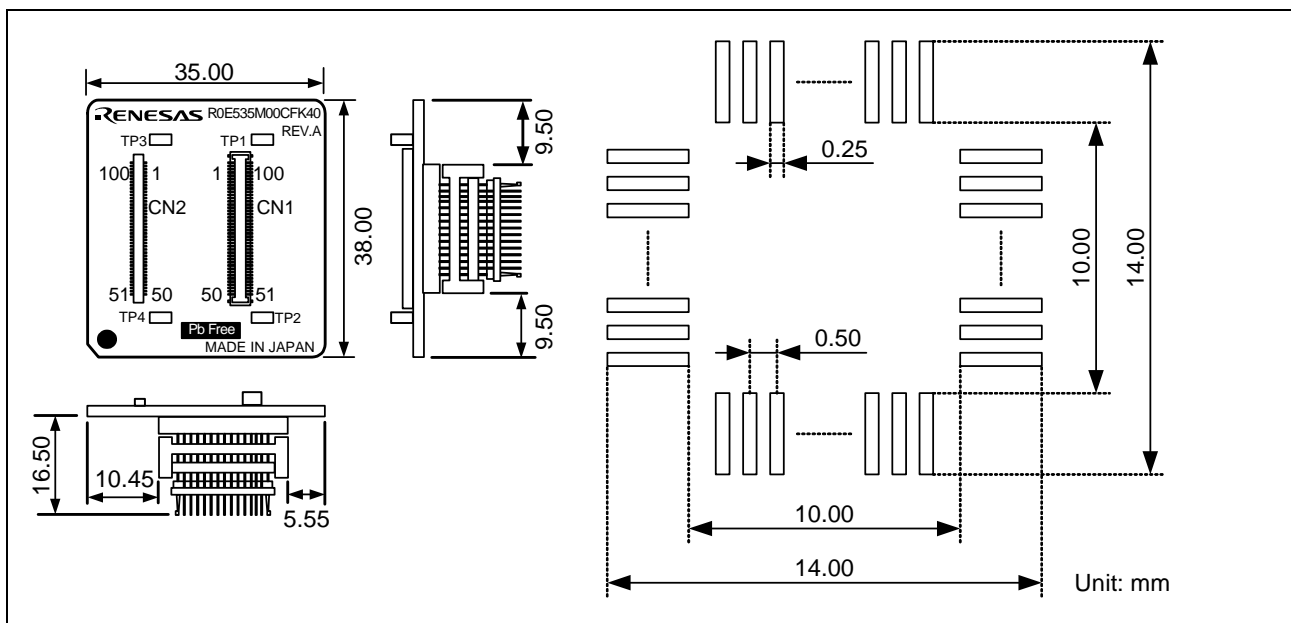


Figure 4 External dimensions and a sample foot pattern of the R0E535M00CFK40

7. Precautions and WEEE Directive

⚠ CAUTION

Cautions to Be Taken for This Product:



- When connecting the YQPACK064SD, be sure to use the included YQ-GUIDES.
- Do not use the screws included with the YQPACK064SD for connecting the YQPACK064SD.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK064SD-ND, YQPACK064SD and HQPACK064SD, contact the following:
Tokyo Eletech Corporation http://www.tetc.co.jp/e_index.htm

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



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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 | 40 | 96 | 39 | 5 | - | 96 | - |
| 6 | 41 | 95 | 38 | 6 | - | 95 | - |
| 7 | 42 | 94 | 37 | 7 | - | 94 | - |
| 8 | 10 | 93 | 36 | 8 | - | 93 | - |
| 9 | 43 | 92 | 35 | 9 | - | 92 | - |
| 10 | 8 | 91 | 34 | 10 | - | 91 | - |
| 11 | 44 | 90 | 33 | 11 | - | 90 | - |
| 12 | 45 | 89 | 32 | 12 | - | 89 | - |
| 13 | 46 | 88 | 31 | 13 | - | 88 | - |
| 14 | 47 | 87 | 30 | 14 | - | 87 | - |
| 15 | - | 86 | - | 15 | - | 86 | - |
| 16 | - | 85 | 29 | 16 | - | 85 | - |
| 17 | - | 84 | - | 17 | - | 84 | - |
| 18 | - | 83 | - | 18 | - | 83 | 48 |
| 19 | - | 82 | - | 19 | - | 82 | - |
| 20 | - | 81 | - | 20 | - | 81 | 49 |
| 21 | - | 80 | - | 21 | - | 80 | 50 |
| 22 | - | 79 | - | 22 | - | 79 | 51 |
| 23 | - | 78 | - | 23 | - | 78 | - |
| 24 | - | 77 | - | 24 | - | 77 | - |
| 25 | - | 76 | - | 25 | - | 76 | - |
| 26 | - | 75 | - | 26 | - | 75 | - |
| 27 | 62 | 74 | 28 | 27 | - | 74 | 52 |
| 28 | - | 73 | 27 | 28 | - | 73 | 53 |
| 29 | - | 72 | 26 | 29 | - | 72 | 54 |
| 30 | - | 71 | 25 | 30 | - | 71 | 55 |
| 31 | 63 | 70 | 24 | 31 | - | 70 | 56 |
| 32 | - | 69 | 23 | 32 | - | 69 | 57 |
| 33 | 64 | 68 | 22 | 33 | - | 68 | 58 |
| 34 | 1 | 67 | 21 | 34 | - | 67 | 59 |
| 35 | 2 | 66 | 20 | 35 | - | 66 | 60 |
| 36 | - | 65 | 19 | 36 | - | 65 | 61 |
| 37 | - | 64 | - | 37 | - | 64 | - |
| 38 | 3 | 63 | 18 | 38 | - | 63 | - |
| 39 | 4 | 62 | - | 39 | - | 62 | - |
| 40 | 5 | 61 | - | 40 | - | 61 | - |
| 41 | 6 | 60 | - | 41 | - | 60 | - |
| 42 | 7 | 59 | - | 42 | - | 59 | - |
| 43 | 8 | 58 | 17 | 43 | - | 58 | - |
| 44 | 9 | 57 | 16 | 44 | - | 57 | - |
| 45 | 10 | 56 | 15 | 45 | - | 56 | - |
| 46 | 11 | 55 | 14 | 46 | - | 55 | - |
| 47 | 12 | 54 | 13 | 47 | - | 54 | - |
| 48 | - | 53 | - | 48 | - | 53 | - |
| 49 | - | 52 | - | 49 | - | 52 | - |
| 50 | - | 51 | - | 50 | - | 51 | - |

(-:No connection or signals in the emulator)

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