To our customers,

Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

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CAUTION

If the requirements shown in the "CAUTION" sentences are ignored, the equipment may cause personal injury or damage to the products.

* NQPACK, YQPACK, YQSOCKET, YQ-GUIDE, HQPACK, TQPACK and TQSOCKET are trademarks of Tokyo EleTech Corporation.

Renesas Tools Homepage http://www.renesas.com/en/tools

Rev.1.00
Dec. 01, 2005
REJ10JO035-0100 (1/4)
1. Outline

The R0E521258CFJ00 is a converter board for connecting the emulation probe R0E521000EPB00 and the compact emulator R0E521000CPE00 for R8C/Tiny Series to a foot pattern for 52-pin 0.65-mm-pitch LQFP (PLQP0052JA-A, formerly 52P6A-A) of R8C/24 and 25 Groups.

2. Package Components (See Figure 1)

Table 1 Package Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>R0E521258CFJ00 (Base board R0E521000CIF00 and 150mm FFC cable included)</td>
<td>1 pc.</td>
</tr>
<tr>
<td>YQPACK052SB (made by Tokyo Eletech Corporation)</td>
<td>1 pc.</td>
</tr>
<tr>
<td>NQPACK052SB (made by Tokyo Eletech Corporation)</td>
<td>1 pc.</td>
</tr>
<tr>
<td>YQ-GUIDE (made by Tokyo Eletech Corporation)</td>
<td>4 pcs.</td>
</tr>
<tr>
<td>R0E521258CFJ00 User's Manual (This manual)</td>
<td>1 pc.</td>
</tr>
</tbody>
</table>

3. Specifications

Table 2 Specifications

<table>
<thead>
<tr>
<th>Applicable package</th>
<th>PLQP0052JA-A, formerly 52P6A-A (52-pin 0.65-mm-pitch LQFP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion/removal iterations of connector</td>
<td>Between R0E521258CFJ00 and YQPACK052SB: 100 times guaranteed</td>
</tr>
<tr>
<td></td>
<td>Between R0E521000EPB00 or R0E521000CPE00 and R0E521258CFJ00: 50 times guaranteed</td>
</tr>
</tbody>
</table>

4. Usage (See Figure 2)

The R0E521258CFJ00 can be used for debugging and board mounted evaluation in common by mounting the NQPACK052SB on the user system.

(1) For debugging
   Mount the NQPACK052SB and YQPACK052SB on the foot pattern of the user system in that order. And fix them with the YQ-GUIDE's (do not use the screws included with the YQPACK052SB).
   After connecting the R0E521000EPB00 or R0E521000CPE00 and R0E521258CFJ00, connect the R0E521258CFJ00 to the YQPACK052SB.

(2) For onboard evaluation
   Mount an R8C/24 and 25 Groups MCU and HQPACK052SB (separately available) in that order on the NQPACK052SB on the user system. And fix them using a screw included with the HQPACK052SB.

Before using the R0E521258CFJ00, be sure to read "7. Precautions" on page 4 and the R0E521000EPB00 or R0E521000CPE00 User's Manual.
5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E521258CFJ00 is shown below.

(1) Mount the NQPACK052SB on the user system.
(2) Attach the YQPACK052SB on the NQPACK052SB.
(3) Secure the four corners of the YQPACK052SB with the YQ-GUIDE's.
   - Do not use the screws included with the YQPACK052SB for fixing the YQPACK052SB.
   - The screwdriver included with the NQPACK052SB is used for fixing the HQPACK052SB. Do not use it for fixing the YQ-GUIDE's.
(4) Attach the R0E521000EPB00 or R0E521000CPE00 to the R0E521258CFJ00.
(5) Attach the R0E521258CFJ00 to the YQPACK052SB.

6. External Dimensions and a Sample Foot Pattern (See Figure 4)

Figure 4 External dimensions and a sample foot pattern of the R0E521258CFJ00
7. Precautions

<table>
<thead>
<tr>
<th><strong>CAUTION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cautions to Be Taken for This Product:</strong></td>
</tr>
<tr>
<td>⚠ Do not pull or excessively flex the cable. The cable may cause a break.</td>
</tr>
<tr>
<td>⚠ When connecting the YQPACK052SB, be sure to use the included YQ-GUIDE's.</td>
</tr>
<tr>
<td>⚠ Do not use the screws included with the YQPACK052SB to fix it.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IMPORTANT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Notes on This Product:</strong></td>
</tr>
<tr>
<td>⚠ We cannot accept any request for repair.</td>
</tr>
<tr>
<td>⚠ For purchasing the NQPACK052SB, YQPACK052SB and HQPACK052SB, contact the following:</td>
</tr>
<tr>
<td>Daimaru Kogyo Ltd.</td>
</tr>
<tr>
<td>Tokyo Eletech Corporation</td>
</tr>
<tr>
<td>⚠ For inquiries about the product or the contents of this manual, contact your local distributor.</td>
</tr>
</tbody>
</table>