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

Issued by: Renesas Electronics Corporation (http://www.renesas.com)
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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.

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

The R0E521174CDB00 is a converter board for connecting the emulation probe R0E521000EPB00 and the compact emulator R0E521000CPE00 for R8C/Tiny Series to a foot pattern for 20-pin 1.778-mm-pitch SDIP (PRDP0020BA-A, formerly 20P4B) of R8C/18, 19, 1A and 1B 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>R0E521174CDB00</td>
<td>1 pc.</td>
</tr>
<tr>
<td>(Base board R0E521000CIF00 and 150mm FFC cable included)</td>
<td></td>
</tr>
<tr>
<td>PM-6-10P for 20-pin SDIP (made by Mac Eight Co., Ltd.)</td>
<td>2 pcs.</td>
</tr>
<tr>
<td>R0E521174CDB00 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>PRDP0020BA-A, formerly 20P4B (20-pin 1.778-mm-pitch SDIP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion/removal</td>
<td>Between R0E521174CDB00 and PM-6-10P: 100 times guaranteed</td>
</tr>
<tr>
<td>iterations of</td>
<td>Between R0E521000EPB00 or R0E521000CPE00 and R0E521174CDB00: 50 times guaranteed</td>
</tr>
<tr>
<td>connector</td>
<td></td>
</tr>
</tbody>
</table>

4. Usage (See Figure 2)

The R0E521174CDB00 can be used for debugging and board mounted evaluation in common by mounting the socket for 20-pin SDIP (PM-6-10P x2) on the user system.

(1) For debugging
Mount the socket for 20-pin SDIP (PM-6-10P x2) on the foot pattern of the user system.
After connecting the R0E521000EPB00 or R0E521000CPE00 and R0E521174CDB00, connect the R0E521174CDB00 to the socket for 20-pin SDIP (PM-6-10P x2).

(2) For on-board evaluation
Mount an R8C/18, 19, 1A and 1B Groups MCU on the socket for 20-pin SDIP (PM-6-10P x2) on the user system

Before using the R0E521174CDB00, 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 R0E521174CDB00 is shown below.

1. Mount the socket for 20-pin SDIP (PM-6-10P x2) on the user system.
2. Attach the R0E521000EPB00 or R0E521000CPE00 to the R0E521174CDB00.
3. Attach the R0E521174CDB00 to the socket for 20-pin SDIP (PM-6-10P x2).

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

Figure 3 Connection procedure of the R0E521174CDB00

Figure 4 External dimensions and a sample foot pattern of the R0E521174CDB00
7. Precautions

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Caution 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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPORTANT</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 inquiries about the product or the contents of this manual, contact your local distributor.</td>
</tr>
<tr>
<td>Renesas Tools Homepage</td>
</tr>
</tbody>
</table>