1. **Outline**

The R0E000010CKZ00 adapter is used to connect the 14-pin 2.54-mm pitch connector on the head of the E1-specific user-system interface cable to 38-pin 0.5-mm pitch connectors. Using this conversion adapter allows connection of the E1 even if your system only has the 38-pin connector for the E20.

2. **Package Components**

Before using this product, confirm that the R0E000010CKZ00 package contains the following items.

1. R0E000010CKZ00 conversion adapter....................... 1 pc.
2. R0E000010CKZ00 user’s manual (this document)

3. **Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper connector</td>
<td>HTST-107-01-T-DV-P-TR (manufactured by Samtec, Inc.)</td>
</tr>
<tr>
<td>(CN1)</td>
<td>Guaranteed number of times for insertion and removal: 50</td>
</tr>
<tr>
<td>Lower connector</td>
<td>5767007-8 (manufactured by Tyco Electronics Corporation)</td>
</tr>
<tr>
<td>(CN2)</td>
<td>Guaranteed number of times for insertion and removal: 50</td>
</tr>
</tbody>
</table>

4. **Usage (See Figure 2)**

The R0E000010CKZ00 is connected between the 14-pin connector on the head of the user-system interface cable (for the E1) and a 38-pin connector on the user system as shown in figure 2.

5. **Restrictions**

The R0E000010CKZ00 allows connection of the E1 to a user system on which the only mounted connector is for the E20. However, the only available functions are those of the E1. Functions specific to the E20 are not available.

![Figure 1 External View of the R0E000010CKZ00](image1)

![Figure 2 Usage of the R0E000010CKZ00](image2)
6. Precautions

**IMPORTANT**

**Notes on This Product:**
- We cannot accept any requests for repairs.
- For inquiries about the product or the contents of this manual, contact your local distributor.

Renesas Tools Homepage  [http://www.renesas.com/tools](http://www.renesas.com/tools)

7. Correspondence between Pins of CN1 and CN2

Table 2  Correspondence between Pins

<table>
<thead>
<tr>
<th>CN1 Pin No.</th>
<th>CN2 Pin No.</th>
<th>CN1 Pin No.</th>
<th>CN2 Pin No.</th>
<th>CN1 Pin No.</th>
<th>CN2 Pin No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>2</td>
<td>GND bus lead</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td>2</td>
<td>27</td>
<td>4</td>
<td>⎯</td>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>⎯</td>
<td>6</td>
<td>⎯</td>
<td>6</td>
<td>13</td>
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<tr>
<td>4</td>
<td>10</td>
<td>7</td>
<td>⎯</td>
<td>7</td>
<td>16</td>
</tr>
<tr>
<td>5</td>
<td>⎯</td>
<td>12</td>
<td>⎯</td>
<td>8</td>
<td>18</td>
</tr>
<tr>
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<td>11</td>
<td>⎯</td>
<td>9</td>
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<td>17</td>
<td>5</td>
<td>27</td>
</tr>
</tbody>
</table>

Note: ‘⎯ ’ indicates that the pin is not used.

8. Preparations

Figure 3 shows the limit on the heights of components mounted around the connector on the user system. Take this limit into account when designing your own system.

**CAUTION**

An upper limit applies to the heights of components mounted around the connector on the user system. This limit is only applicable with the following type of connector.

Type number: 2-5767004-2 (manufactured by Tyco Electronics Corporation)

The emulator is connected from this direction.

Orientation keys

Area with limit on mounted components (heights must be no greater than 5 mm)

The GND bus lead in the center of the connector must be connected to GND on the user system.

Figure 3 Limit on Height of Components Mounted on the User System
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