1. Outline
The R0E000200CKA00 adapter is used to connect the 38-pin 0.5-mm pitch connector on the head of the E20-specific user-system interface cable to 14-pin 2.54-mm pitch connectors. Using this conversion adapter allows connection of the E20 even if your system only has the 14-pin connector for the E1.

2. Package Components
Before using this product, confirm that the R0E000200CKA00 package contains the following items.
(1) R0E000200CKA00 conversion adapter ................. 1 pc.
(2) R0E000200CKA00 user's manual (this document)

3. Specifications
Table 1 Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper connector</td>
<td>2-5767004-2 (manufactured by Tyco Electronics Corporation)</td>
</tr>
<tr>
<td>(CN1)</td>
<td>Guaranteed number of times for insertion and removal: 50</td>
</tr>
<tr>
<td>Lower connector</td>
<td>XG4H-1431 (manufactured by OMRON 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 R0E000200CKA00 is connected between the 38-pin connector on the head of the user-system interface cable (for the E20) and a 14-pin connector on the user system as shown in figure 2.

5. Restrictions
Trace signals will not be connected if you are using the R0E000200CKA00, so the following functions specific to the E20 are not available.
(1) External trace output (but internal tracing is available)
(2) Realtime RAM monitoring

Figure 1 External View of the R0E000200CKA00

Figure 2 Usage of the R0E000200CKA00
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>6</td>
<td>15</td>
<td>1</td>
<td>29</td>
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<tr>
<td>2</td>
<td>10</td>
<td>16</td>
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<tr>
<td>6</td>
<td>—</td>
<td>20</td>
<td>—</td>
<td>34</td>
<td>—</td>
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<tr>
<td>7</td>
<td>—</td>
<td>21</td>
<td>3</td>
<td>35</td>
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<tr>
<td>8</td>
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</tr>
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<td>11</td>
<td>5</td>
<td>25</td>
<td>—</td>
<td>GND bus lead 2, 12</td>
<td></td>
</tr>
<tr>
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<td>8</td>
<td>28</td>
<td>—</td>
<td>—</td>
<td>—</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 types of connector.
- Type number: 7614-6002 (manufactured by Sumitomo 3M Limited)
- 2514-6002 (manufactured by 3M Limited)

The emulator is connected from this direction.

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