1. Outline

The RTE0T00020KCA10000R adapter is used to convert the user-system interface cable for the E2 emulator to 20-pin 2.54-mm pitch connectors.

2. Package Components

Before using this product, confirm that the RTE0T00020KCA10000R package contains the following items.

(1) RTE0T00020KCA10000R conversion adapter…… 1 pc
(2) RTE0T00020KCA10000R user’s manual (this document)………………………………………………………... 1 sheet
(3) Table of Toxic and Hazardous Substance and Elements………………………………………………………...1 sheet

3. Specification and Usage

This product is a conversion adapter for use in the debugging of devices that have Arm® and RH850 cores. Figures 2 and 3 show the connections in this product and the method of connecting this product to the E2 emulator and the user system, respectively.

The names of signals in Figure 2 are those for the Arm® core, so may differ from those of the actual target device. For details on the devices and debugging interfaces for which this product can be used, refer to the user’s manuals of the E2 emulator for the respective types of device.

https://www.renesas.com/e2
The emulator is connected from this direction.

Area where a restriction applies to mounted components (components must have heights no greater than 10 mm)

Figure 2 Connections of the RTE0T00020KCA10000R

Figure 3 Connecting the RTE0T00020KCA10000R
4. Precautions

**IMPORTANT**

Note on This Product:
- We cannot accept any requests for repairs.
- For inquiries about the product or the contents of this manual, contact us from the following URL.

[http://www.renesas.com/contact/](http://www.renesas.com/contact/)

5. WEEE Directive

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(Rev.4.0-1 November 2017)
1. 概要

RTE0T00020KCA10000R は、エミュレータ用ユーザインタフェースケーブルを 20 ピン 2.54mm ピッチコネクタに変換して接続するためのアダプタです。

2. 梱包内容

ご使用前に下記の製品がすべてそろっていることをご確認ください。
(1) RTE0T00020KCA10000R（変換アダプタ）…………1 個
(2) RTE0T00020KCA10000R ユーザーズマニュアル（本書）……………………………………………………………………………………………………………………………1 枚
(3) 有毒有害物質又は元素の含有表……………………………1 枚

3. 仕様及び使用方法

本製品は Arm® コア搭載デバイスおよび RH850 コア搭載デバイスのデバッグ用変換アダプタです。本製品の接続を図 2 に、E2 エミュレータおよびユーザシステムとの接続方法を図 3 に示します。

図 2 の信号名は Arm® コア信号名で記載しており、実際のターゲットデバイスの信号名とは異なることがあります。また、本製品を使用できるデバイスおよびデバッグインタフェースは各デバイス用 E2 エミュレータの個別ユーザーズマニュアルを参照してください。

https://www.renesas.com/e2
### 図 2 RTE0T00020KCA10000R の結線

<table>
<thead>
<tr>
<th>CN1</th>
<th>CN2</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP1</td>
<td>TEST_PIN</td>
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<tr>
<td>1.27-mm pitch connector</td>
<td>2.54-mm pitch connector</td>
</tr>
<tr>
<td>1 VTREF</td>
<td>1</td>
</tr>
<tr>
<td>2 Arm: TMS/SWDO RH850: -</td>
<td>2</td>
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<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>4 Arm: TOI/SWCCLK RH850: LPDCLK</td>
<td>4</td>
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<td>5</td>
<td>5</td>
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<tr>
<td>6 Arm: TDO/SWO RH850: PLD0</td>
<td>6</td>
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<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8 Arm: TDI RH850: PLDI</td>
<td>8</td>
</tr>
<tr>
<td>9 (UCON) GND Detect</td>
<td>9</td>
</tr>
<tr>
<td>10 Arm: SRST# RH850: RES#</td>
<td>10</td>
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<td>11</td>
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<tr>
<td>12 Arm: RH850: RDY# LPDCLKO</td>
<td>12</td>
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<td>13</td>
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<td>14</td>
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<tr>
<td>15 Arm: TRST# RH850: LFORST#</td>
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<td>17 Arm: DBGRO RH850: -</td>
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<tr>
<td>19 Arm: DBGACK RH850: -</td>
<td>19</td>
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<td>20</td>
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</tr>
</tbody>
</table>

### 図 3 RTE0T00020KCA10000R の接続方法

ユーザシステム:

- 20pin 1.27mmピッチ コネクタ
- ユーザインタフェースケーブル
- 20pin 1.27mmピッチ/20pin 2.54mmピッチ コネクタ変換アダプタ

エミュレータ接続コネクタ:
- 20pin 2.54mmピッチコネクタ
- HTST-110-01-S-DV

ここから側からエミュレータを接続します。
4. 注意事項

重要

本製品に関して:

● 本製品は、修理対象外です。
● 本製品の内容及び本書についての問い合わせは下記までお願いします。

お問合せ窓口 https://www.renesas.com/contact/

5. WEEE 指令

重要

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(Rev.4.0-1 2017.11)