

R0E521174CSJ00

Converter Board for 20-pin 0.65-mm-pitch LSSOP

User's Manual

* NQPACK, YQPACK, YQSOCKET, YQ-GUIDE, HQPACK, TQPACK, TQSOCKET, NSPACK, YSPACK, HSPACK and YS-GUIDE are trademarks of Tokyo Eletech Corporation.

Keep safety first in your circuit designs!

- Renesas Technology Corporation and Renesas Solutions Corporation put the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

- These materials are intended as a reference to assist our customers in the selection of the Renesas Technology product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Renesas Technology Corporation, Renesas Solutions Corporation or a third party.
- Renesas Technology Corporation and Renesas Solutions Corporation assume no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.
- All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Renesas Technology Corporation and Renesas Solutions Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact Renesas Technology Corporation, Renesas Solutions Corporation or an authorized Renesas Technology product distributor for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Renesas Technology Corporation and Renesas Solutions Corporation assume no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Renesas Technology Corporation and Renesas Solutions Corporation by various means, including the Renesas home page (<http://www.renesas.com>).
- When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Renesas Technology Corporation and Renesas Solutions Corporation assume no responsibility for any damage, liability or other loss resulting from the information contained herein.
- Renesas Technology semiconductors are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact Renesas Technology Corporation, Renesas Solutions Corporation or an authorized Renesas Technology product distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.
- The prior written approval of Renesas Technology Corporation and Renesas Solutions Corporation is necessary to reprint or reproduce in whole or in part these materials.
- If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.
- Please contact Renesas Technology Corporation or Renesas Solutions Corporation for further details on these materials or the products contained therein.

Precautions to be taken when using this product

- This product is a development supporting unit for use in your program development and evaluation stages. In mass-producing your program you have finished developing, be sure to make a judgment on your own risk that it can be put to practical use by performing integration test, evaluation, or some experiment else.
- In no event shall Renesas Solutions Corporation be liable for any consequence arising from the use of this product.
- Renesas Solutions Corporation strives to renovate or provide a workaround for product malfunction at some charge or without charge. However, this does not necessarily mean that Renesas Solutions Corporation guarantees the renovation or the provision under any circumstances.
- This product has been developed by assuming its use for program development and evaluation in laboratories. Therefore, it does not fall under the application of Electrical Appliance and Material Safety Law and protection against electromagnetic interference when used in Japan.



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>

Rev.2.00
Apr. 01, 2006
REJ10J0847-0200

(1/4)

Renesas Technology
www.renesas.com

1. Outline

The R0E521174CSJ00 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 0.65-mm-pitch LSSOP (PLSP0020JB-A, formerly 20P2F-A) of R8C/14, 15, 16, 17, 18, 19, 1A, 1B, 28 and 29 Groups.

2. Package Components (See Figure 1)

Table 1 Package Components

Item	Quantity
R0E521174CSJ00 (Base board R0E521000CIF00 and 150mm FFC cable included)	1 pc.
YSPACK20BG (made by Tokyo Eletech Corporation)	1 pc.
NSPACK20BG (made by Tokyo Eletech Corporation)	1 pc.
YS-GUIDE (made by Tokyo Eletech Corporation)	2 pcs.
R0E521174CSJ00 User's Manual (This manual)	1 pc.

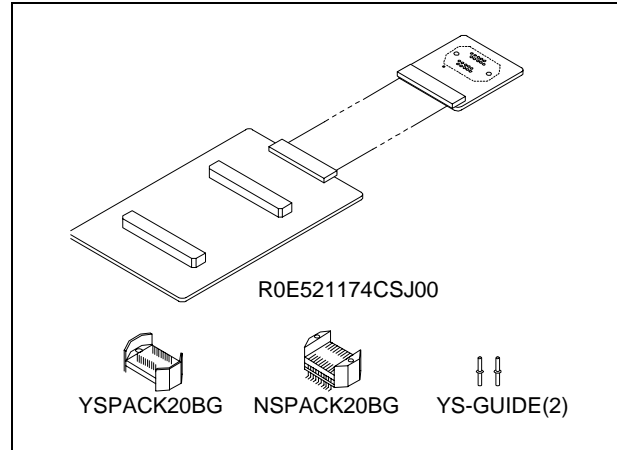


Figure 1 Package components of the R0E521174CSJ00

3. Specifications

Table 2 Specifications

Applicable package	PLSP0020JB-A, formerly 20P2F-A (20-pin 0.65-mm-pitch LSSOP)
Insertion/removal iterations of connector	Between R0E521174CSJ00 and YSPACK20BG: 100 times guaranteed
	Between R0E521000EPB00 or R0E521000CPE00 and R0E521174CSJ00: 50 times guaranteed

4. Usage (See Figure 2)

The R0E521174CSJ00 can be used for debugging and board mounted evaluation in common by mounting the NSPACK20BG on the user system.

- (1) For debugging
Mount the NSPACK20BG and YSPACK20BG on the foot pattern of the user system in that order. And fix them with the YS-GUIDE's (do not use the screws included with the YSPACK20BG).

After connecting the R0E521000EPB00 or R0E521000CPE00 and R0E521174CSJ00, connect the R0E521174CSJ00 to the YSPACK20BG.

- (2) For onboard evaluation
Mount an R8C/14, 15, 16, 17, 18, 19, 1A, 1B, 28 and 29 Groups MCU and HSPACK20BG (separately available) in that order on the NSPACK20BG on the user system. And fix them using a screw included with the HSPACK20BG.

Before using the R0E521174CSJ00, be sure to read "7. Precautions" on page 4 and the R0E521000EPB00 or R0E521000CPE00 User's Manual.

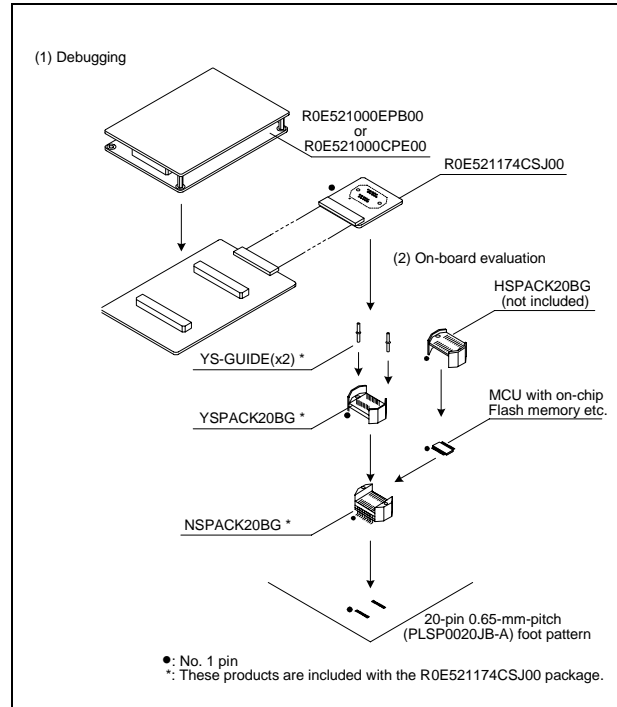


Figure 2 Usage of the R0E521174CSJ00

5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E521174CSJ00 is shown below.

- (1) Mount the NSPACK20BG on the user system.
- (2) Attach the YSPACK20BG on the NSPACK20BG.
- (3) Secure the two corners of the YSPACK20BG with the YS-GUIDE's.

- Do not use the screws included with the YSPACK20BG for fixing the YSPACK20BG.
- The screwdriver included with the NSPACK020BG is used for fixing the HSPACK020BG. Do not use it for fixing the YS-GUIDE's.

- (4) Attach the R0E521000EPB00 or R0E521000CPE00 to the R0E521174CSJ00.
- (5) Attach the R0E521174CSJ00 to the YSPACK20BG.

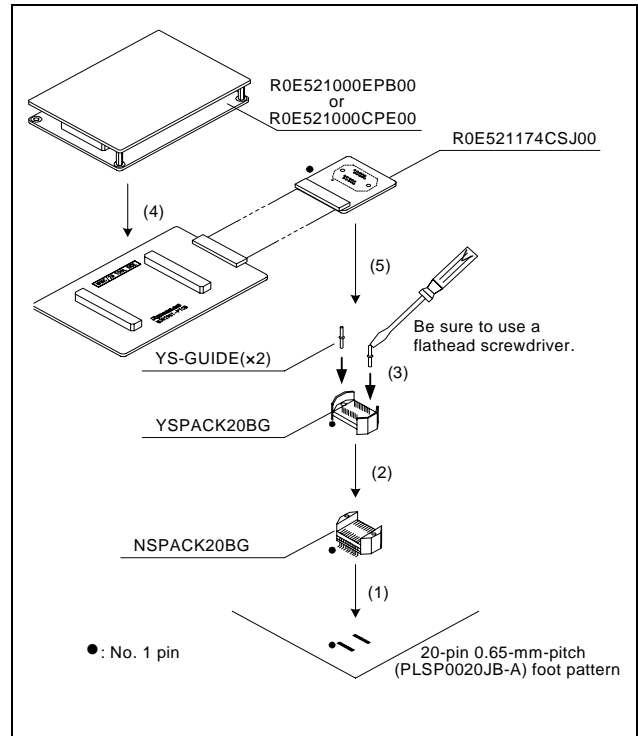


Figure 3 Connection procedure of the R0E521174CSJ00

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

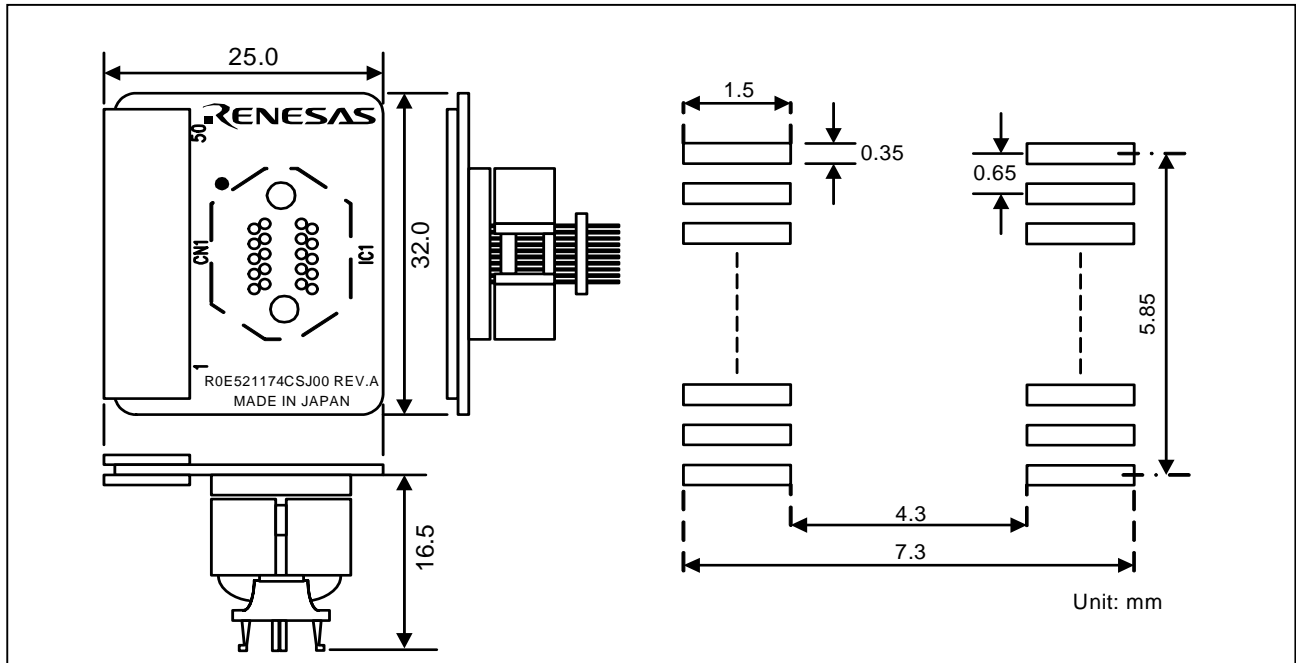


Figure 4 External dimensions and a sample foot pattern of the R0E521174CSJ00

7. Precautions

CAUTION

Cautions to Be Taken for This Product:



- Do not pull or excessively flex the cable. The cable may cause a break.
- When connecting the YSPACK20BG, be sure to use the included YS-GUIDE's.
- Do not use the screws included with the YSPACK20BG to fix it.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NSPACK20BG, YSPACK20BG and HSPACK20BG, contact the following:
Daimaru Kogyo Ltd. <http://www.daimarukogyo.co.jp/>
Tokyo Eletech Corporation http://www.tetc.co.jp/e_tet.htm
- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/en/tools>

8. How to Add an MCU File

If an MCU file for the R8C/28 and 29 Groups cannot be selected after starting up the emulator debugger, add an MCU file following the procedure below.

- (1) Please download an MCU file installer which is suitable for your emulator from the download site below.
http://tool-support.renesas.com/eng/toolnews/download/r8c26_29.htm

- When using with the compact emulator R0E521000CPE00
MCU file installer: MCU_Files_install_cpe_R8C_26-29.exe
- When using with the emulation probe R0E521000EPB00
MCU file installer: MCU_Files_install_epb_R8C_26-29.exe

- (2) Execute the installer to add the MCU file.

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>