

# R0E521276CFG00

Converter Board for 32-pin 0.8-mm-pitch LQFP

# User's Manual

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

#### 1. Outline

The R0E521276CFG00 is a converter board for connecting the emulation probe R0E521000EPB00 and the compact emulator R0E521000CPE00 for R8C/Tiny Series to a foot pattern for 32-pin 0.8-mm-pitch LQFP (PLQP0032GB-A, formerly 32P6U-A) of R8C/26 and 27 Groups.

#### 2. Package Components (See Figure 1)

Table 1 Package Components

Item	Quantity
R0E521276CFG00 (Base board R0E521000CIF00 and 150mm FFC cable included)	1 pc.
YQPACK032SA (made by Tokyo Eletech Corporation)	1 pc.
NQPACK032SA (made by Tokyo Eletech Corporation)	1 pc.
YQ-GUIDE (made by Tokyo Eletech Corporation)	4 pcs.
R0E521276CFG00 User's Manual (This manual)	1 pc.

### 3. Specifications

Table 2 Specifications

Applicable package	PLQP0032GB-A
	(32-pin 0.8-mm-pitch LQFP)
	Between R0E521276CFG00 and
	YQPACK032SA:
Insertion/removal	100 times guaranteed
iterations of	Between R0E521000EPB00 or
connector	R0E521000CPE00 and
	R0E521276CFG00:
	50 times guaranteed

### 4. Usage (See Figure 2)

The R0E521276CFG00 can be used for debugging and board mounted evaluation in common by mounting the NQPACK032SA on the user system.

(1) For debugging

Mount the NQPACK032SA and YQPACK032SA on the foot pattern of the user system in that order. And fix them with the YQ-GUIDE's (do not use the screws included with the YQPACK032SA).

After connecting the R0E521000EPB00 or R0E521000CPE00 and R0E521276CFG00, connect the R0E521276CFG00 to the YQPACK032SA.

(2) For onboard evaluation

Mount an R8C/26 and 27 Groups MCU and HQPACK032SA (separately available) in that order on the NQPACK032SA on the user system. And fix them using a screw included with the HQPACK032SA.

Before using the R0E521276CFG00, be sure to read "7. Precautions" on page 4 and the R0E521000EPB00 or R0E521000CPE00 User's Manual.

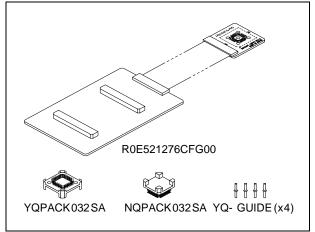


Figure 1 Package components of the R0E521276CFG00

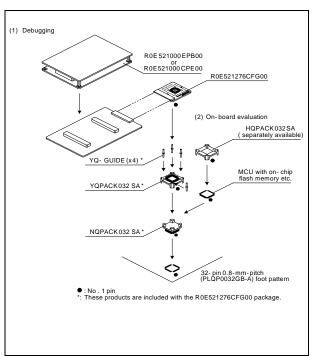


Figure 2 Usage of the R0E521276CFG00

#### 5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E521276CFG00 is shown below.

- (1) Mount the NQPACK032SA on the user system.
- (2) Attach the YQPACK032SA on the NQPACK032SA.
- (3) Secure the four corners of the YQPACK032SA with the YQ-GUIDE's.
  - Do not use the screws included with the YQPACK032SA for fixing the YQPACK032SA.
  - The screwdriver included with the NQPACK032SA is used for fixing the HQPACK032SA. Do not use it for fixing the YQ-GUIDE's.
- (4) Attach the R0E521000EPB00 or R0E521000CPE00 to the R0E521276CFG00.
- (5) Attach the R0E521276CFG00 to the YQPACK032SA.

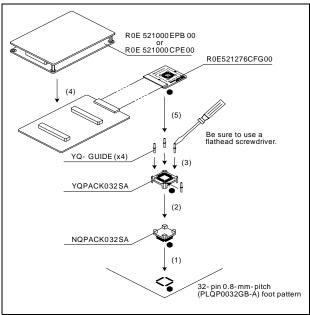
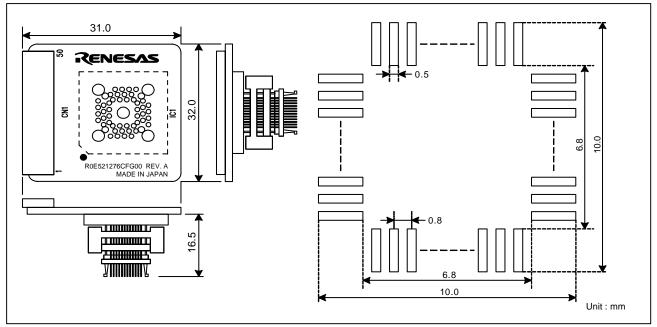


Figure 3 Connection procedure of the R0E521276CFG00



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

Figure 4 External dimensions and a sample foot pattern of the R0E521276CFG00

#### 7. Precautions

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#### **Cautions to Be Taken for This Product:**

- Do not pull or excessively flex the cable. The cable may cause a break.
- When connecting the YQPACK032SA, be sure to use the included YQ-GUIDE's.
- Do not use the screws included with the YQPACK032SA to fix it.

## IMPORTANT

#### Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK032SA, YQPACK032SA and HQPACK032SA, contact the following: Daimaru Kogyo Ltd. http://www.daimarukogyo.co.jp/
- Tokyo Eletech Corporationhttp://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/26 and 27 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.