



# R0E521276CFG00

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

## User's Manual

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### 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

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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.	

# R0E521276CFG00 R0E521276CFG00 YQPACK032SA NQPACK032SA YQ- GUIDE (x4)

Figure 1 Package components of the R0E521276CFG00

### 3. Specifications

Table 2 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.

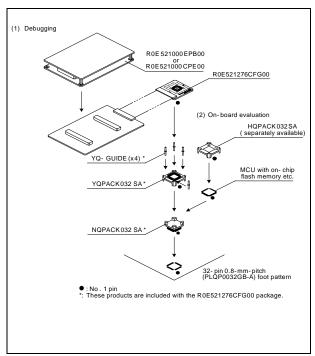


Figure 2 Usage of the R0E521276CFG00

### 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.

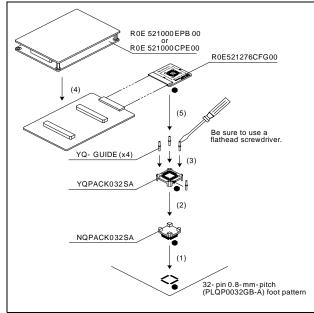


Figure 3 Connection procedure of the R0E521276CFG00

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

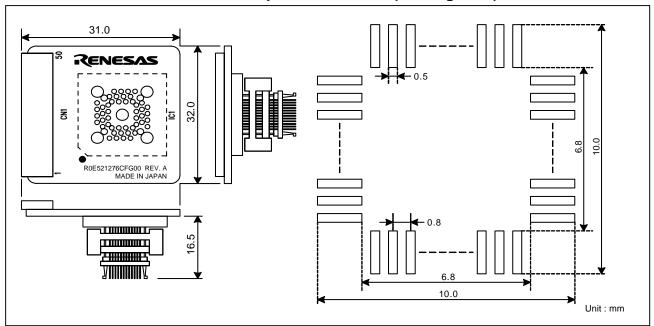


Figure 4 External dimensions and a sample foot pattern of the R0E521276CFG00

### 7. Precautions

### **⚠** 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 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.

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