

## Converter Boards for the R8C/2A, R8C/2B, R8C/2C, and R8C/2D MCU Groups Released

We have released three converter boards\* for the R8C/2A, R8C/2B, R8C/2C, and R8C/2D MCU groups.

\*Used together with the emulation probe--R0E521000EPB00--or the compact emulator--R0E521000CPE00--for the R8C/Tiny MCU series.

### 1. Outlines

Three converter boards for the R8C/2A, R8C/2B, R8C/2C, and R8C/2D groups connect the R0E521000EPB00 emulation probe or the R0E521000CPE00 compact emulator with target MCUs of the R8C/2A, R8C/2B, R8C/2C, or R8C/2D group to emulate them.

The product types of these converter boards are listed below.

For details of the specifications of the boards, see the user's manuals of them. The Web pages shown below will be opened from February 20 on.

#### **(1) The converter board for connecting the 64-pin 0.8-mm-pitch LQFP**

package (PLQP0064GA-A) of the R8C/2A and R8C/2B groups:

R0E5212BACFG00

The user's manual (230K bytes in PDF)

#### **(2) The converter board for connecting the 64-pin 0.5-mm-pitch LQFP**

package (PLQP0064KB-A) of the R8C/2A and R8C/2B groups:

R0E5212BACFK00

The user's manual (249K bytes in PDF)

#### **(3) The converter board for connecting the 80-pin 0.5-mm-pitch LQFP**

package (PLQP0080KB-A) of the R8C/2C and R8C/2D groups:

R0E5212DACFK00

The user's manual (221K bytes in PDF)

For general descriptions of the R0E521000EPB00 emulation probe and the R0E521000CPE00 compact emulator, see their datasheets on the Web sites for the emulation probe, and this page for the compact emulator.

To emulate any MCU of the R8C/2A, R8C/2B, R8C/2C, and R8C/2D groups, you need a firmware file and an MCU files (containing information specific to the MCU).

MCU file is included in a latest emulator debugger. (Updated Jul. 5, 2007)

Please download an update program from the following and update to the latest emulator debugger.

- M16C R8C PC7501 emulator debugger  
[http://www.renesas.com/pc7501\\_download](http://www.renesas.com/pc7501_download)
- M16C R8C compact emulator debugger  
[http://www.renesas.com/m16c\\_cpe\\_dbg\\_download](http://www.renesas.com/m16c_cpe_dbg_download)

Download latest release notes from the following. You can also get them by using the DocumantUpdater.

R0E521000EPB00 Release Notes

R0E521000CPE00 Release Notes

**Note:**

In each release note are described important notes on debugging and evaluating the MCUs of the R8C/2A, R8C/2B, R8C/2C, and R8C/2D groups. So please read it carefully before using the emulation probe and the compact emulator.

## **2. Contents of Product Packages**

### **2.1 R0E5212BACFG00**

- (1) A converter board--R0E5212BACFG00--for connecting the 64-pin 0.8-mm-pitch LQFP package (PLQP0064GA-A) of the R8C/2A and R8C/2B groups
- (2) A socket at a probe end--YQPACK064SA (manufactured by Tokyo Eletech Corp.)
- (3) A socket for mounting the target MCU--NQPACK064SA160 (manufactured by Tokyo Eletech Corp.)
- (4) Four guide pins--YQ-GUIDE (manufactured by Tokyo Eletech Corp.)
- (5) A user's manual

### **2.2 R0E5212BACFK00**

- (1) A converter board--R0E5212BACFK00--for connecting the 64-pin

0.5-mm-pitch LQFP package (PLQP0064KB-A) of the R8C/2A and R8C/2B groups

- (2) A socket at a probe end--YQPACK064SD (manufactured by Tokyo Eletech Corp.)
- (3) A socket for mounting the target MCU--NQPACK064SD-ND (manufactured by Tokyo Eletech Corp.)
- (4) Four guide pins--YQ-GUIDE (manufactured by Tokyo Eletech Corp.)
- (5) A user's manual

### 2.3 R0E5212DACFK00

- (1) A converter board--R0E5212DACFK00--for connecting the 80-pin 0.5-mm-pitch LQFP package (PLQP0080KB-A) of the R8C/2C and R8C/2D groups
- (2) A socket at a probe end--YQPACK080SD (manufactured by Tokyo Eletech Corp.)
- (3) A socket for mounting the target MCU--NQPACK080SD-ND (manufactured by Tokyo Eletech Corp.)
- (4) Four guide pins--YQ-GUIDE (manufactured by Tokyo Eletech Corp.)
- (5) A user's manual

## 3. Ordering Information

If you place an order for any of the converter boards, please supply the following items of information to your local Renesas Technology sales office or distributor (for the prices of the product, also contact them):

### 3.1 Converter Board Only

Product Types	Type Names
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R0E5212BACFG00	As left
R0E5212BACFK00	As left
R0E5212DACFK00	As left

### 3.2 Combination of Converter Board and Emulation Probe/Compact Emulator

to Be Released on March 1

Each of the three converter boards can be supplied in combination with the R0E521000EPB00 emulation probe or the R0E521000CPE00 compact emulator.

#### 3.2.1 R0E5212BACFG00 Board with Emulation Probe/Compact Emulator

to be released on March 1

##### (1) The combination with the emulation probe

Product Type: R0E5212BAEPB00

Type Name: As above

**(2) The combination with the compact emulator**

Product Type: R0E5212BACPE00

Type Name: As above

**3.2.2 R0E5212BACFK00 Board with Emulation Probe/Compact Emulator  
to be released on March 1**

**(1) The combination with the emulation probe**

Product Type: R0E5212BAEPB10

Type Name: As above

**(2) The combination with the compact emulator**

Product Type: R0E5212BACPE10

Type Name: As above

**3.2.3 R0E5212DACFK00 Board with Emulation Probe/Compact Emulator  
to be released on March 1**

**(1) The combination with the emulation probe**

Product Type: R0E5212DAEPB00

Type Name: As above

**(2) The combination with the compact emulator**

Product Type: R0E5212DACPE00

Type Name: As above

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