

The Compact Emulator for the R8C/Tiny Series Released

We have released the compact emulator for the R8C/Tiny series, M16C family of MCUs, R0E521000CPE00.

1. Outline

The R0E521000CPE00 compact emulator is used for the R8C/Tiny series of MCUs and provided with real-time trace capabilities.

With the product package are included such software tools as an integrated development environment, a C compiler, an assembler, an emulator debugger, so you can start developing and debugging* your application programs immediately after getting and unpacking the product.

- * To debug programs, the optional converter board for connecting the target system to the compact emulator is required in addition. For ordering the combinations of the compact emulator and optional converter boards, see Section 3.2.

Its features are as follows:

- Fundamental debugging capabilities much enhanced.
- Real-time trace capabilities supported.
- Compactly designed in size.
- Programming and debugging tools included.
- Economical-priced
- USB (USB 1.1 full-speed) supported. (Also can be connected to host machines equipped with the USB 2.0 interface.)
- Maximum operating clock frequency: 20 MHz
- Supply voltages to the target system: 2.2--5.5 V

For details, see its datasheets.

2. The Contents of the Product Package

- (1) A compact emulator--R0E521000CPE00
- (2) An evaluation MCU (already mounted)
- (3) Two oscillator boards:
 - o OSC-3 for the 20-MHz main clock (already mounted)
 - o OSC-2 for main clocks
- (4) A USB interface cable (1.8 m)
- (5) A power supply cable (30 cm; no power supply included)
- (6) A ferrite core for the power supply cable
- (7) A CD-ROM of the M16C R8C compact emulator software packages including:
 - o M16C R8C compact emulator debugger V.1.01 Release 00B
 - o C compiler package M3T-NC30WA V.5.30 Release 02 (evaluation edition)
- (8) A user's manual
- (9) A release note
- (10) H/W Tool Customer Registration Sheet
- (11) A Repair Request Sheet

3. Ordering Information

If you place an order for the product you want, please supply its ordering information stated in the tables below to your local Renesas Technology sales office or distributor.

For the prices of the products, also contact them.

3.1 R0E521000CPE00 Only (without Optional Converter Board)

Product Type	Type Name	Comment
R0E521000CPE00	R0E521000CPE00	None

3.2 Combination of R0E521000CPE00 and Optional Converter Board

The five sets of the R0E521000CPE00 and an optional converter board are available for MCUs encapsulated in five types of MCU package, which are listed below.

- (1) Set for 32-pin 0.8-mm-pitch LQFP-packaged MCUs in the R8C/10, /11, /12, and /13 groups

Product Type	R0E521134CPE00
Contents	R0E521000CPE00 and converter board R0E521134CFG00

- (2) Set for 20-pin 0.65-mm-pitch LSSOP-packaged MCUs in the R8C/14, /15, /16,

/17, /18, /19, /1A, and /1B groups

Product Type	R0E521174CPE00
Contents	R0E521000CPE00 and converter board R0E521174CSJ00

- (3) Set for 20-pin 1.778-mm-pitch SDIP-packaged MCUs in the R8C/18, /19, /1A, and /1B groups

Product Type	R0E521174CPE10
Contents	R0E521000CPE00 and converter board R0E521174CDB00

- (4) Set for 48-pin 0.5-mm-pitch LQFP-packaged MCUs in the R8C/20, /21, /22, and /23 groups

Product Type	R0E521237CPE00
Contents	R0E521000CPE00 and converter board R0E521237CFK0

- (5) Set for 52-pin 0.65-mm-pitch LQFP-packaged MCUs in the R8C/24 and /25 groups

Product Type	R0E521258CPE00
Contents	R0E521000CPE00 and converter board R0E521258CFJ00

Product Type	Type Name	Comment
R0E521134CPE00	R0E521134CPE00	None
R0E521174CPE00	R0E521174CPE00	None
R0E521174CPE10	R0E521174CPE10	None
R0E521237CPE00	R0E521237CPE00	None
R0E521258CPE00	R0E521258CPE00	None

4. Notes

- (1) We are remodeling the WS and ES products of the compact emulator to an equivalent of the standard product. So we will inform the users who have purchased WS or ES that free-of-charge remodeling is ready to be available on the tool news in February 2006.
- (2) When you use the WS or ES product of the compact emulator, be sure to use the emulator debugger, the firmware file and the MCU files included with WS or ES. If you use those included with the standard product, WS and ES products may not

properly work.

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