

RENESAS TOOL NEWS on February 1, 2010: 100201/tn4

## New On-Chip Debugging Emulators E1 and E20 Released

We have released the on-chip debugging emulators E1 and E20.

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### 1. Outlines of the E1 and the E20

The E1 and the E20 are on-chip debugging emulators that are equipped with the serial and JTAG interfaces and support developing systems designed with members of the following MCU families:

- All the MCUs of the RX family
- The newly developed MCUs of the R8C family
- The newly developed MCUs of the SuperH family

The MCUs not supported by the E1 and E20 are supported by any of the existing emulators (E8a, E10A-USB, and so on).

#### 1.1 E1 Emulator

The E1 emulator is the successor to the E8a and E10A-USB emulators and has better usability, better capabilities, and higher performances than its predecessors. The E1 is an economical-priced development tool provided with fundamental debugging functions and can be used as a flash programmer.

For further information about the E1, go to:

<https://www.renesas.com/e1>

This Web page will be opened from February 5.

The above URL is one of our global sites.

#### 1.2 E20 Emulator

The E20 emulator is provided with enhanced tracing functions and real-time RAM-monitoring functions in addition to the debugging functions with which the E1 is provided. These functions enable you to develop user systems efficiently. Note that the debugging functions you can use depend on MCUs used in your systems.

For further information about the E20, go to:

<https://www.renesas.com/e20>

This Web page will be opened from February 5 on.

The above URL is one of our global sites.

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

### **2.1 E1 Emulator**

- (1) An E1 emulator
- (2) A USB interface cable
- (3) A user-interface cable
- (4) A CD-ROM

The CD-ROM contains the following software products and manual:

- High-performance Embedded Workshop
- E1/E20 emulator debugger
- User's manual in PDF

### **2.2 E20 Emulator**

- (1) An E20 emulator
- (2) A USB interface cable
- (3) A user-interface cable
- (4) A 38-pin/14-pin converter adapter

(This adapter is used to connect the E20 to the user board designed for the E1.)

- (5) A CD-ROM

The CD-ROM contains the following software products and manual:

- High-performance Embedded Workshop
- E1/E20 emulator debugger
- User's manual in PDF

## **3. How to Purchase the Products**

When you place an order for either of the product, supply the following items of information to your local Renesas Technology sales office or distributor:

E1 emulator:

Product type: E1

Ordering code: R0E000010KCE00

E20 emulator:

Product type: E20

Ordering code: R0E000200KCT00

For the prices of the products, also contact the above sales office or distributor.

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