E20

The following page content corresponds to the products formerly marketed by Renesas Technology.

Development Tools Home
E20
- Features
- Components
- Specifications
- System Configuration
- Useful Function

FAQs
Application Notes and Sample Code
Downloads
Documentation
Discontinued Info

Tool Stock and Availability

Tools Orderable Parts Number (s)	Status	Manufacturer	Suggested Single Tool Price	Description	Distributor Stock	Distributor Name	Distributor Region	Last Updated Date	Distributor Purchase
R0E000200KCT00	Available	Renesas	$995.00	E20 debugger	0	Call	US		Call

Note : Distributor Prices may vary from the stated budgetary price. The pricing and availability information on this site is based on information provided by Renesas' authorized distributors and is subject to change without notice. By selecting a distributor from this page, you will be redirected from the Renesas site to the distributor's website to complete a purchase. The distributors are independent from Renesas and maintain their own terms and conditions of sale. Renesas disclaims all representations and warranties, express and implied, with respect to transactions between distributors and their end customers.

Related Resources

Correction To "RX Family E1/E20 Emulator Additional Document for User's Manual"
[16 Mar. 2010, Tool News]

A Note on Using Flash Development Toolkit -With Erasing Flash Memory-
[16 Mar. 2010, Tool News]

Learn more about RX Family

Target Devices

- RX Family RX600 Series
  - RX610 Group
  - RX621, RX62N Group**
  - RX62T Group**

** : Under Development

Overview

The E20 emulator is available for sophisticated debugging as it supports the debugging functions as well as E1 emulator, and in addition, the E20 provides enhanced trace functions, RAM monitor functions and other functions as well. It is also usable as a flash programmer.

It is available for UART connection (supported with E8a) and JTAG connection (supported with E10A-USB).

Some extensive debugging functions have been added such as a large capacity of trace (2M branches or cycles), Real-time RAM monitor function (4K byte), C0 coverage function, and so on. Moreover, it is less expensive than E10A-USB emulator and is a high cost-performance developing tool.
By using these sophisticated debugging functions, it is available for easy evaluation and analysis of problems during debugging, which contributes to shorten the debugging period very much.

E20 is supposed to support not only microcomputers of RX family but also new products of SuperH and R8C families in the future.

Functional comparison with existing products

Functions	E20	E8a	E10A-USB
Connection system	UART, JTAG	UART	JTAG
PC interface	USB2.0 (full speed or high speed)	USB2.0 (full speed)	USB2.0 (full speed)
User interface	14-way (UART, JTAG), 38-way (JTAG + TRACE)	14-way (UART)	14-way (JTAG), 36-way or 38-way (JTAG + AUD)
Communication speed with PC (incl. downloading)	Improved	Ordinary	Ordinary
Trace capacity	Approx. 2M branches or cycles (only with TRACE)	4 sets of branch sources and destination*1	16K sets of branch sources and destination*1 (only with AUD)
Performance measurement function	Enable*1	Disable	Enable*1
Real-time RAM monitor	4KB	Disable	Disable
On-board programming function	Enable	Enable	Disable
Power supply function	Disable	Enable (3.3V or 5V)	Disable
Debug MCU board	Enable*1 (Under development)	Disable	Enable*1

*1. Differs by MCUs.

Part No.

R0E000200KCT00