

外部闪存定义编辑程序EFE R32C/100系列的附加软件包 发布说明

R20UT0532CJ0100
Rev.1.00
2011.03.18

感谢您使用本公司的产品。在使用本产品时有一些注意事项，敬请留意！

目录

1. 产品概要	2
2. 产品的安装和启动	2
3. 注意事项	3
3.1 共同事项	3
3.2 使用 E30A 仿真器的情况	3
4. 支持的外部闪存连接形态	3
5. 支持的 OS	3
6. 工作环境	4
6.1 Windows Vista® 32 位版本、Windows® 7	4
6.2 Windows® XP 32 位版本、Windows® 2000	4

1. 产品概要

本产品是用于通过外部闪存定义编辑程序EFE（External Flash Definition Editor）和E30A仿真器对连接R32C/100系列MCU外部总线的闪存（外部闪存）进行用户数据编程的附加软件包。

能通过以下组合进行编程：

- E30A 仿真器
- R32C/100 E30A 仿真调试程序 V.1.02 Release 00 以上版本
- EFE V.1.00 Release 00 以上版本
- 本产品（用于EFE的R32C/100系列附加软件包）

E30A 仿真器的详细内容请参照以下 URL 中的数据表：

<http://www.renesas.com/e30a>

EFE 的详细内容请参照以下 URL 中的数据表：

<http://www.renesas.com/efe>

2. 产品的安装和启动

(1) EFE 和 EFE 的 R32C/100 系列附加软件包的取得

请从以下 URL 的下载页面下载“外部闪存定义编辑程序”和“EFE 的 R32C/100 系列附加软件包”：

http://www.renesas.com/efe_download

(2) EFE 的安装

请在任意的文件夹里对“外部闪存定义编辑程序”进行解压。

建立名为 EFE 的文件夹。

(3) EFE 的 R32C/100 系列附加软件包的安装

在 EFE\Program 文件夹里对“EFE 的 R32C/100 系列附加软件包”进行解压。

建立名为 R32C 的文件夹。

(4) EFE 的启动

双击启动 EFE\EFE.exe。

除 EFE 标准支持的 RX 族以外，还能定义 R32C/100 系列的外部闪存。

3. 注意事项

3.1 共同事项

- (1) 在将程序下载到外部闪存时，需要切换到存储器扩展模式以及设定外部总线。在建立USD文件时，必须将记述这些设定的脚本文件指定为下载前的执行脚本。在下载前自动执行指定的脚本文件以及进行所记述的设定。
- (2) 如果在仿真调试程序的[Debug Settings]（调试设置）对话框的[Options]（选项）选项卡中选定了[Resetting CPU after download module]（下载模块后复位CPU）复选框，就在下载后对CPU进行复位并且对外部总线进行初始化设定。因此，即使在下载后参照下载的区域，也无法确认下载的内容。为了在下载后仍保持外部总线的设定，请取消[Resetting CPU after download module]（下载模块后复位CPU）复选框的选定，或者从命令行窗口执行指定为下载前执行脚本的脚本文件。通过选择菜单[Debug]（调试）→[Debug Settings...]（调试设置），打开[Debug Settings]（调试设置）对话框。

3.2 使用E30A仿真器的情况

有关设定在建立USD文件时指定的作业RAM，必须指定中断堆栈区和DMA对象区域不重叠的地址。必须注意：E30A仿真器在目标程序复位时将中断堆栈指针（ISP）设定为0500h。

指定为作业RAM的区域有可能和调试程序的[Init]对话框、[MCU]选项卡指定的监视程序的作业区重叠。

4. 支持的外部闪存连接形态

支持下表所示的外部闪存连接形态：

编程方式	MCU外部总线宽度	外部闪存连接形态	RX族	R32C/100系列
JEDEC	8bit	8bit×1	○	○
	16bit	16bit×1	○	○
		8bit×2	○	○
	32bit	16bit×2	—	○
CUI	8bit	8bit×1	○	○
	16bit	16bit×1	○	○
		8bit×2	—	—
	32bit	16bit×2	—	—

5. 支持的OS

- Windows® 2000
- Windows® XP 32bit editions
- Windows Vista® 32bit editions
- Windows® 7 32bit editions
- Windows® 7 64bit editions

6. 工作环境

6.1 Windows Vista® 32 位版本、Windows® 7

PC 环境	
PC	IBM PC/AT 兼容机（1GHz 以上的 CPU）
存储器	1GB 以上
硬盘	100MB 以上
显示器分辨率	1024×768 以上

不支持 64 位版本的 Windows Vista®。

Windows Vista 是美国 Microsoft Corporation 在美国和其他国家的商标或者注册商标。

6.2 Windows® XP 32 位版本、Windows® 2000

PC 环境	
PC	IBM PC/AT 兼容机（建议 Pentium III 600MHz 以上）
存储器	512MB 以上
硬盘	100MB 以上
显示器分辨率	建议 1024×768 以上

不支持 64 位版本的 Windows® XP。

Windows 是美国 Microsoft Corporation 在美国和其他国家的商标或者注册商标。

Notice

1. All information included in this document is current as of the date this document is issued. Such information, however, is subject to change without any prior notice. Before purchasing or using any Renesas Electronics products listed herein, please confirm the latest product information with a Renesas Electronics sales office. Also, please pay regular and careful attention to additional and different information to be disclosed by Renesas Electronics such as that disclosed through our website.
2. Renesas Electronics does not assume any liability for infringement of patents, copyrights, or other intellectual property rights of third parties by or arising from the use of Renesas Electronics products or technical information described in this document. No license, express, implied or otherwise, is granted hereby under any patents, copyrights or other intellectual property rights of Renesas Electronics or others.
3. You should not alter, modify, copy, or otherwise misappropriate any Renesas Electronics product, whether in whole or in part.
4. Descriptions of circuits, software and other related information in this document are provided only to illustrate the operation of semiconductor products and application examples. You are fully responsible for the incorporation of these circuits, software, and information in the design of your equipment. Renesas Electronics assumes no responsibility for any losses incurred by you or third parties arising from the use of these circuits, software, or information.
5. When exporting the products or technology described in this document, you should comply with the applicable export control laws and regulations and follow the procedures required by such laws and regulations. You should not use Renesas Electronics products or the technology described in this document for any purpose relating to military applications or use by the military, including but not limited to the development of weapons of mass destruction. Renesas Electronics products and technology may not be used for or incorporated into any products or systems whose manufacture, use, or sale is prohibited under any applicable domestic or foreign laws or regulations.
6. Renesas Electronics has used reasonable care in preparing the information included in this document, but Renesas Electronics does not warrant that such information is error free. Renesas Electronics assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.
7. Renesas Electronics products are classified according to the following three quality grades: "Standard", "High Quality", and "Specific". The recommended applications for each Renesas Electronics product depends on the product's quality grade, as indicated below. You must check the quality grade of each Renesas Electronics product before using it in a particular application. You may not use any Renesas Electronics product for any application categorized as "Specific" without the prior written consent of Renesas Electronics. Further, you may not use any Renesas Electronics product for any application for which it is not intended without the prior written consent of Renesas Electronics. Renesas Electronics shall not be in any way liable for any damages or losses incurred by you or third parties arising from the use of any Renesas Electronics product for an application categorized as "Specific" or for which the product is not intended where you have failed to obtain the prior written consent of Renesas Electronics. The quality grade of each Renesas Electronics product is "Standard" unless otherwise expressly specified in a Renesas Electronics data sheets or data books, etc.
"Standard": Computers; office equipment; communications equipment; test and measurement equipment; audio and visual equipment; home electronic appliances; machine tools; personal electronic equipment; and industrial robots.
"High Quality": Transportation equipment (automobiles, trains, ships, etc.); traffic control systems; anti-disaster systems; anti-crime systems; safety equipment; and medical equipment not specifically designed for life support.
"Specific": Aircraft; aerospace equipment; submersible repeaters; nuclear reactor control systems; medical equipment or systems for life support (e.g. artificial life support devices or systems), surgical implantations, or healthcare intervention (e.g. excision, etc.), and any other applications or purposes that pose a direct threat to human life.
8. You should use the Renesas Electronics products described in this document within the range specified by Renesas Electronics, especially with respect to the maximum rating, operating supply voltage range, movement power voltage range, heat radiation characteristics, installation and other product characteristics. Renesas Electronics shall have no liability for malfunctions or damages arising out of the use of Renesas Electronics products beyond such specified ranges.
9. Although Renesas Electronics endeavors to improve the quality and reliability of its products, semiconductor products have specific characteristics such as the occurrence of failure at a certain rate and malfunctions under certain use conditions. Further, Renesas Electronics products are not subject to radiation resistance design. Please be sure to implement safety measures to guard them against the possibility of physical injury, and injury or damage caused by fire in the event of the failure of a Renesas Electronics product, such as safety design for hardware and software including but not limited to redundancy, fire control and malfunction prevention, appropriate treatment for aging degradation or any other appropriate measures. Because the evaluation of microcomputer software alone is very difficult, please evaluate the safety of the final products or system manufactured by you.
10. Please contact a Renesas Electronics sales office for details as to environmental matters such as the environmental compatibility of each Renesas Electronics product. Please use Renesas Electronics products in compliance with all applicable laws and regulations that regulate the inclusion or use of controlled substances, including without limitation, the EU RoHS Directive. Renesas Electronics assumes no liability for damages or losses occurring as a result of your noncompliance with applicable laws and regulations.
11. This document may not be reproduced or duplicated, in any form, in whole or in part, without prior written consent of Renesas Electronics.
12. Please contact a Renesas Electronics sales office if you have any questions regarding the information contained in this document or Renesas Electronics products, or if you have any other inquiries.
(Note 1) "Renesas Electronics" as used in this document means Renesas Electronics Corporation and also includes its majority-owned subsidiaries.
(Note 2) "Renesas Electronics product(s)" means any product developed or manufactured by or for Renesas Electronics.



SALES OFFICES

Renesas Electronics Corporation

<http://www.renesas.com>

Refer to "<http://www.renesas.com/>" for the latest and detailed information.

Renesas Electronics America Inc.

2880 Scott Boulevard Santa Clara, CA 95050-2554, U.S.A.
Tel: +1-408-588-6000, Fax: +1-408-588-6130

Renesas Electronics Canada Limited

1101 Nicholson Road, Newmarket, Ontario L3Y 9C3, Canada
Tel: +1-905-898-5441, Fax: +1-905-898-3220

Renesas Electronics Europe Limited

Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: +44-1628-585-100, Fax: +44-1628-585-900

Renesas Electronics Europe GmbH

Arcadiastrasse 10, 40472 Düsseldorf, Germany
Tel: +49-211-6503-0, Fax: +49-211-6503-1327

Renesas Electronics (China) Co., Ltd.

7th Floor, Quantum Plaza, No.27 ZhiChunLu Haidian District, Beijing 100083, P.R.China
Tel: +86-10-8235-1155, Fax: +86-10-8235-7679

Renesas Electronics (Shanghai) Co., Ltd.

Unit 204, 205, AZIA Center, No.1233 Lujiazui Ring Rd., Pudong District, Shanghai 200120, China
Tel: +86-21-5877-1818, Fax: +86-21-6887-7858 / -7898

Renesas Electronics Hong Kong Limited

Unit 1601-1613, 16/F., Tower 2, Grand Century Place, 193 Prince Edward Road West, Mongkok, Kowloon, Hong Kong
Tel: +852-2886-9318, Fax: +852 2886-9022/9044

Renesas Electronics Taiwan Co., Ltd.

7F, No. 363 Fu Shing North Road Taipei, Taiwan, R.O.C.
Tel: +886-2-8175-9600, Fax: +886 2-8175-9670

Renesas Electronics Singapore Pte. Ltd.

1 harbourFront Avenue, #06-10, keppel Bay Tower, Singapore 098632
Tel: +65-6213-0200, Fax: +65-6278-8001

Renesas Electronics Malaysia Sdn.Bhd.

Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No. 18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia
Tel: +60-3-7955-9390, Fax: +60-3-7955-9510

Renesas Electronics Korea Co., Ltd.

11F., Samik Lavied' or Bldg., 720-2 Yeoksam-Dong, Kangnam-Ku, Seoul 135-080, Korea
Tel: +82-2-558-3737, Fax: +82-2-558-5141