

RL78 Family EEPROM Emulation Library Pack02 Ver.1.01 for the CC-RL compiler

R20UT3485EJ0100
Rev.1.00
Jul 15, 2015

Release Note

Thank you for using the RL78 Family EEPROM Emulation Library Pack02 Ver.1.01 for the CC-RL compiler.

This document contains notes and points for caution on using the EEPROM Emulation Library Pack02 Ver.1.01 for the CC-RL compiler. Please read this document before use.

Contents

1. Target Product.....	2
2. User's Manual.....	2
3. Revisions	2
4. Supported Tools.....	3
5. Installation	4
5.1 Installation	4
5.2 Uninstallation.....	4
5.3 File Configuration	5
6. How to Debug a Program.....	6
6.1 Notes on Debugging	6
7. How to Allocate Sections	6

1. Target Product

The target product of this release note is as follows:

Product Name	Ver.	ZIP File Name	Zip Ver.
RL78 Family EEPROM Emulation Library Pack02 for the CC-RL compiler	Ver.1.01	JP_R_EEL_RL78_P02_V1.01_CCRL_A_E	V1.01A

2. User's Manual

The user's manual and "difference document" listed below are available for this version. Please read both documents before using this product.

Title	Document Number
RL78 Family EEPROM Emulation Library Pack02 User's Manual	R01US0068EJ0100
RL78 Family EEPROM Emulation Library Pack02 Differences between the CA78K0R compiler version and the CC-RL compiler version	R20UT3486EJ0100

3. Revisions

There is no correction item.

4. Supported Tools

Use the following tool version when using the EEPROM Emulation Library Pack02 Ver. 1.01 for the CC-RL compiler.

Tool Name	Version
Integrated development environment CS+	V3.01.00 or later

5. Installation

This chapter describes how to install and uninstall the EEPROM Emulation Library Pack02 Ver. 1.01.

5.1 Installation

Install the EEPROM Emulation Library Pack02 by using the following procedure:

- (1) Start Windows.
- (2) Decompress the folder that contains the EEPROM Emulation Library Pack02 files and place the extracted folder at any location chosen by the user.

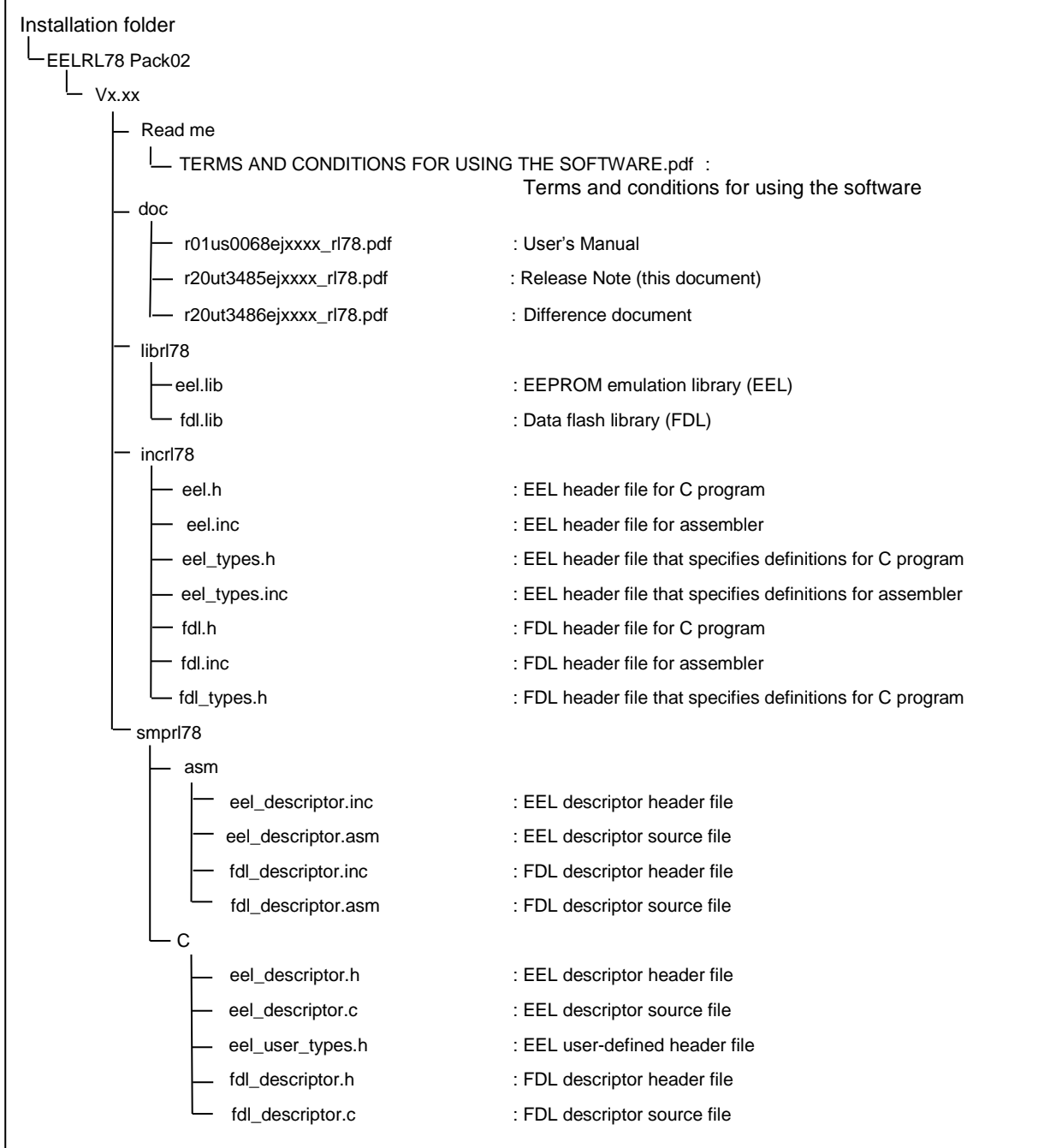
5.2 Uninstallation

Uninstall the EEPROM Emulation Library Pack02 by using the following procedure:

- (1) Start Windows.
- (2) Delete the folder that contains the EEPROM Emulation Library Pack02 files and was placed at the location chosen by the user.

5.3 File Configuration

The file configuration after decompressing the folder that contains the EEPROM Emulation Library Pack02 for the CC-RL compiler files is shown below.



Notes1: Since “x” in this table means a version number or revision number, these numbers are omitted.

6. How to Debug a Program

For details on how to perform debugging by using IECUBE or the on-chip debugging emulator E1 or E20, see the following document:

Title
CS+ Integrated Development Environment User's Manual: RL78 Debug Tool ^{Note1}

Note1: You can download this document from the "CS+ Integrated Development Environment" of the Renesas Electronics website.

6.1 Notes on Debugging

(1)The EEPROM Emulation Library Pack02 cannot be debugged by a simulator. To perform debugging, either use the on-chip debugging function of the RL78 microcontroller or prepare the IECUBE.

7. How to Allocate Sections

The CC-RL compiler has a -start option that is used to allocate sections to desired locations.

-start = [Section name]/Address

Note that the sizes of the sections are not specifiable.^{Note2}

Use the -start option to specify all sections for which settings are required by EEPROM Emulation Library Pack02.

While the CA78K0R compiler reserves the self-RAM as an area not for use by the user program, the CC-RL compiler does not require designation of the self-RAM because there is no need to make settings for addresses in unused areas.

Note2: For details on the methods of defining and allocating all data, refer to the user's manual for CS+. Reference to the map file (*.map) generated in building is required to confirm the state of allocation.

Notice

1. 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.
2. 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.
3. 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.
4. You should not alter, modify, copy, or otherwise misappropriate any Renesas Electronics product, whether in whole or in part. Renesas Electronics assumes no responsibility for any losses incurred by you or third parties arising from such alteration, modification, copy or otherwise misappropriation of Renesas Electronics product.
5. Renesas Electronics products are classified according to the following two quality grades: "Standard" and "High Quality". The recommended applications for each Renesas Electronics product depends on the product's quality grade, as indicated below.
"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 etc.
"High Quality": Transportation equipment (automobiles, trains, ships, etc.); traffic control systems; anti-disaster systems; anti-crime systems; and safety equipment etc.
Renesas Electronics products are neither intended nor authorized for use in products or systems that may pose a direct threat to human life or bodily injury (artificial life support devices or systems, surgical implantations etc.), or may cause serious property damages (nuclear reactor control systems, military equipment etc.). 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 for which it is not intended. 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 which the product is not intended by Renesas Electronics.
6. 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.
7. 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 systems manufactured by you.
8. 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.
9. 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. You should not use Renesas Electronics products or 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. When exporting the Renesas Electronics 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.
10. It is the responsibility of the buyer or distributor of Renesas Electronics products, who distributes, disposes of, or otherwise places the product with a third party, to notify such third party in advance of the contents and conditions set forth in this document, Renesas Electronics assumes no responsibility for any losses incurred by you or third parties as a result of unauthorized use of Renesas Electronics products.
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.

2801 Scott Boulevard Santa Clara, CA 95050-2549, U.S.A.
Tel: +1-408-588-6000, Fax: +1-408-588-6130

Renesas Electronics Canada Limited

9251 Yonge Street, Suite 8309 Richmond Hill, Ontario Canada L4C 9T3
Tel: +1-905-237-2004

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.

Room 1709, Quantum Plaza, No.27 ZhiChunLu Haidian District, Beijing 100191, P.R.China
Tel: +86-10-8235-1155, Fax: +86-10-8235-7679

Renesas Electronics (Shanghai) Co., Ltd.

Unit 301, Tower A, Central Towers, 555 Langao Road, Putuo District, Shanghai, P. R. China 200333
Tel: +86-21-2226-0888, Fax: +86-21-2226-0999

Renesas Electronics Hong Kong Limited

Unit 1601-1611, 16/F., Tower 2, Grand Century Place, 193 Prince Edward Road West, Mongkok, Kowloon, Hong Kong
Tel: +852-2265-6688, Fax: +852 2886-9022

Renesas Electronics Taiwan Co., Ltd.

13F, No. 363, Fu Shing North Road, Taipei 10543, Taiwan
Tel: +886-2-8175-9600, Fax: +886 2-8175-9670

Renesas Electronics Singapore Pte. Ltd.

80 Bendemeer Road, Unit #06-02 Hyflux Innovation Centre, Singapore 339949
Tel: +65-6213-0200, Fax: +65-6213-0300

Renesas Electronics Malaysia Sdn.Bhd.

Unit 1207, 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 India Pvt. Ltd.

No.777C, 100 Feet Road, HALII Stage, Indiranagar, Bangalore, India
Tel: +91-80-67208700, Fax: +91-80-67208777

Renesas Electronics Korea Co., Ltd.

12F., 234 Teheran-ro, Gangnam-Gu, Seoul, 135-080, Korea
Tel: +82-2-558-3737, Fax: +82-2-558-5141