

# R8C E8a Emulator Debugger

## Release Notes

This document describes the notes of this debugger, and please read before you start to use this debugger.

And also, please refer to the “High-performance Embedded Workshop Release Notes” about the notes of High-performance Embedded Workshop IDE.

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# 1 Application

This release notes is applicable to the following parts of the E8a emulator software.

- R8C E8a Emulator Debugger V.1.04.00

## 2 System Requirements

### 2.1 Operating Environment (Windows Vista®, Windows® XP or Windows® 2000)

PC Environment	
PC	IBM PC/AT compatible
OS	32-bit editions of Windows Vista® *1 *3 32-bit editions of Windows® XP *1 *2 Windows® 2000 *1
CPU	Pentium 4 running at 3 GHz or more recommended
Memory	Windows Vista® 1.5 Gbytes or larger (more than 10 times the file size of the load module) recommended Windows® XP , Windows® 2000: 768 Mbytes or larger (more than 10 times the file size of the load module) recommended
Hard disk	Installation of the simulator debugger requires free space of 200 Mbytes or larger. Also keep additional free space that is at least twice the memory capacity (four times or larger recommended) for use as swap space.
Display resolution	1024 × 768 or higher recommended

\*1: Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

\*2: The 64-bit editions of Windows® XP is not supported.

\*3: The 64-bit edition of Windows Vista® is not supported.

## 3 Supported MCUs

### 3.1 R8C/1x Series

Group	Part No.
R8C/10	R5F21102, R5F21103, R5F21104
R8C/11	R5F21112, R5F21113, R5F21114
R8C/12	R5F21122, R5F21123, R5F21124
R8C/13	R5F21132, R5F21133, R5F21134
R8C/14	R5F21142, R5F21143, R5F21144
R8C/15	R5F21152, R5F21153, R5F21154
R8C/16	R5F21162, R5F21163, R5F21164
R8C/17	R5F21172, R5F21173, R5F21174
R8C/18	R5F21181, R5F21182, R5F21183, R5F21184
R8C/19	R5F21191, R5F21192, R5F21193, R5F21194
R8C/1A	R5F211A1, R5F211A2, R5F211A3, R5F211A4
R8C/1B	R5F211B1, R5F211B2, R5F211B3, R5F211B4

### 3.2 R8C/2x Series

Group	Part No.
R8C/20	R5F21206, R5F21207, R5F21208, R5F2120A, R5F2120C
R8C/21	R5F21216, R5F21217, R5F21218, R5F2121A, R5F2121C
R8C/22	R5F21226, R5F21227, R5F21228, R5F2122A, R5F2122C
R8C/23	R5F21236, R5F21237, R5F21238, R5F2123A, R5F2123C
R8C/24	R5F21244, R5F21245, R5F21246, R5F21247, R5F21248
R8C/25	R5F21254, R5F21255, R5F21256, R5F21257, R5F21258
R8C/26	R5F21262, R5F21264, R5F21265, R5F21266

R8C/27	R5F21272, R5F21274, R5F21275, R5F21276
R8C/28	R5F21282, R5F21284, R5F21286
R8C/29	R5F21292, R5F21294, R5F21296
R8C/2A	R5F212A7, R5F212A8, R5F212AA, R5F212AC
R8C/2B	R5F212B7, R5F212B8, R5F212BA, R5F212BC
R8C/2C	R5F212C7, R5F212C8, R5F212CA, R5F212CC
R8C/2D	R5F212D7, R5F212D8, R5F212DA, R5F212DC
R8C/2E	R5F212E2, R5F212E4
R8C/2F	R5F212F2, R5F212F4
R8C/2G	R5F212G4, R5F212G5, R5F212G6
R8C/2H	R5F212H1, R5F212H2
R8C/2J	R5F212J0, R5F212J1
R8C/2K	R5F212K2, R5F212K4
R8C/2L	R5F212L2, R5F212L4

### 3.3 R8C/3x Series

Group	Part No.
R8C/32A	R5F21321A, R5F21322A, R5F21324A
R8C/33A	R5F21331A, R5F21332A, R5F21334A, R5F21335A, R5F21336A
R8C/35A	R5F21354A, R5F21355A, R5F21356A, R5F21357A, R5F21358A, R5F2135AA, R5F2135CA,
R8C/36A	R5F21364A, R5F21365A, R5F21366A, R5F21367A, R5F21368A, R5F2136AA, R5F2136CA,
R8C/38A	R5F21386A, R5F21387A, R5F21388A, R5F2138AA, R5F2138CA,
R8C/3GA	R5F213G2A, R5F213G4A, R5F213G5A, R5F213G6A
R8C/3JA	R5F213J2A, R5F213J4A, R5F213J5A, R5F213J6A
R8C/32C	R5F21321C, R5F21322C, R5F21324C
R8C/33C	R5F21331C, R5F21332C, R5F21334C, R5F21335C, R5F21336C
R8C/34C	R5F21344C, R5F21345C, R5F21346C
R8C/36C	R5F21364C, R5F21365C, R5F21366C, R5F21367C, R5F21368C, R5F2136AC, R5F2136CC
R8C/38C	R5F21386C, R5F21387C, R5F21388C, R5F2138AC, R5F2138CC
R8C/3GC	R5F213G1C, R5F213G2C, R5F213G4C, R5F213G5C, R5F213G6C
R8C/3JC	R5F213J2C, R5F213J4C, R5F213J5C, R5F213J6C
R8C/3JT	R5F213J4T, R5F213J5T, R5F213J6T
R8C/32D	R5F21321D, R5F21322D, R5F21324D
R8C/33D	R5F21331D, R5F21332D, R5F21334D, R5F21335D, R5F21336D
R8C/35D	R5F21354D, R5F21355D, R5F21356D
R8C/3GD	R5F213G1D, R5F213G2D, R5F213G4D, R5F213G5D, R5F213G6D
R8C/34E	R5F21346E, R5F21347E, R5F21348E, R5F2134AE, R5F2134CE,
R8C/34F	R5F21346F, R5F21347F, R5F21348F, R5F2134AF, R5F2134CF,
R8C/34G	R5F21346G, R5F21347G, R5F21348G, R5F2134AG, R5F2134CG,
R8C/34H	R5F21346H, R5F21347H, R5F21348H, R5F2134AH, R5F2134CH,
R8C/36E	R5F21368E, R5F2136AE, R5F2136CE,
R8C/36F	R5F21368F, R5F2136AF, R5F2136CF,
R8C/36G	R5F21368G, R5F2136AG, R5F2136CG,
R8C/36H	R5F21368H, R5F2136AH, R5F2136CH,
R8C/38E	R5F21388E, R5F2138AE, R5F2138CE,
R8C/38F	R5F21388F, R5F2138AF, R5F2138CF,
R8C/38G	R5F21388G, R5F2138AG, R5F2138CG
R8C/38H	R5F21388H, R5F2138AH, R5F2138CH
R8C/33T	R5F21334T R5F21335T R5F21336T
R8C/M11A	R5F2M110A, R5F2M111A, R5F2M112A
R8C/M12A	R5F2M120A, R5F2M121A, R5F2M122A

### 3.4 R8C/LxSeries

Group	Part No.
R8C/L35A	R5F2L357A, R5F2L358A, R5F2L35AA, R5F2L35CA
R8C/L36A	R5F2L367A, R5F2L368A, R5F2L36AA, R5F2L36CA
R8C/L38A	R5F2L387A, R5F2L388A, R5F2L38AA, R5F2L38CA
R8C/L3AA	R5F2L3A7A, R5F2L3A8A, R5F2L3AAA, R5F2L3ACA
R8C/L35B	R5F2L357B, R5F2L358B, R5F2L35AB, R5F2L35CB
R8C/L36B	R5F2L367B, R5F2L368B, R5F2L36AB, R5F2L36CB
R8C/L38B	R5F2L387B, R5F2L388B, R5F2L38AB, R5F2L38CB
R8C/L3AB	R5F2L3A7B, R5F2L3A8B, R5F2L3AAB, R5F2L3ACB
R8C/L35C	R5F2L357C, R5F2L358C, R5F2L35AC, R5F2L35CC
R8C/L36C	R5F2L367C, R5F2L368C, R5F2L36AC, R5F2L36CC
R8C/L38C	R5F2L387C, R5F2L388C, R5F2L38AC, R5F2L38CC
R8C/L3AC	R5F2L3A7C, R5F2L3A8C, R5F2L3AAC, R5F2L3ACC
R8C/LA6A	R5F2LA64A, R5F2LA66A, R5F2LA67A, R5F2LA68A
R8C/LA8A	R5F2LA84A, R5F2LA86A, R5F2LA87A, R5F2LA88A

## 4 Notes

This document is supplementary information for the E8a Emulator Additional Document for User's Manual.

### 4.1 Note on rewriting flash memory

Do not execute debugging operations when rewriting the flash memory. Flash memory rewrite ends when the "Flash memory write end" is displayed in the output window of the High-performance Embedded Workshop. Flash memory rewrite occurs:

- When downloading the user program
- After setting PC breaks in the flash memory and executing the user program
- After canceling PC breaks in the flash memory and executing the user program
- After rewriting the value of the flash memory in the memory window and executing the user program

### 4.2 Notes on using automatic memory update

- If the automatic memory update is enabled in the Memory or Watch window, do not reset the MCU.
- When automatic memory update is enabled, do not execute Step Out or Multiple-steps.

### 4.3 Note on memory verification

- As the E8a emulator debugger does not support the following memory verification, the emulator always runs without verifying memory.
  - Memory Setting (e.g. [Set] popup menu in the Memory window)
  - Memory Fill (e.g. [Fill] popup menu in the Memory window)
  - Memory Copy (e.g. [Move] popup menu in the Memory window)
  - Loading a memory area from a file (e.g. [Load] popup menu in the Memory window)
- The E8a emulator debugger does not support "Perform memory verify during download" and "Access size" of the Download Module dialog box. Please run the debugger without memory verification and with access size set to 1.
- From [Debug] > [Verify Memory] you cannot select any format containing debug information. Though an option may appear in [File format] drop-down list, do not select it.

### 4.4 The function to apply the settings selected in creating a new workspace

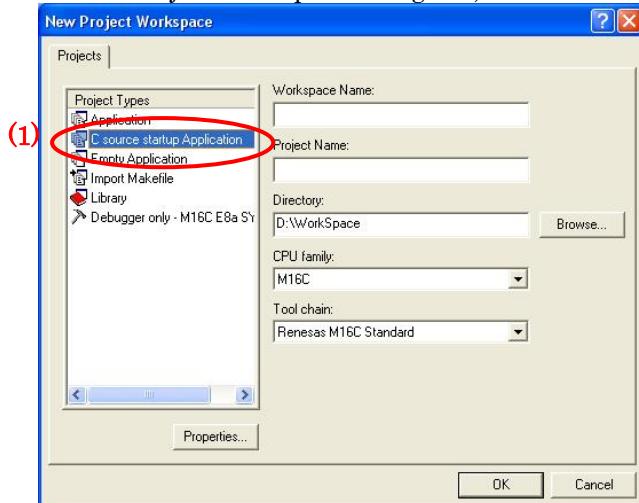
The Settings ("CPU Group", "firmware Address" and "WorkRAM Address") selected in creating a new workspace can be applied to the emulator setting dialog box. This function had been added since the R8C E8a emulator debugger V.1.03.00.

This function can run if the following conditions are all satisfied:

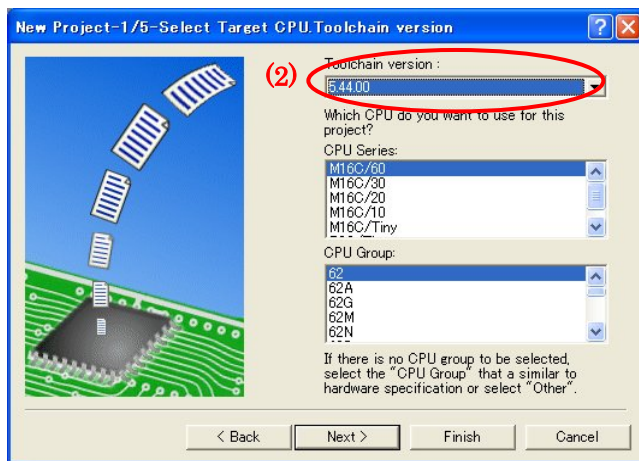
- Install the following software:

software name	version
High-performance Embedded Workshop	V.4.05.00 or later
C Compiler Package M3T-NC30WA	V.5.42 Release 00 or later

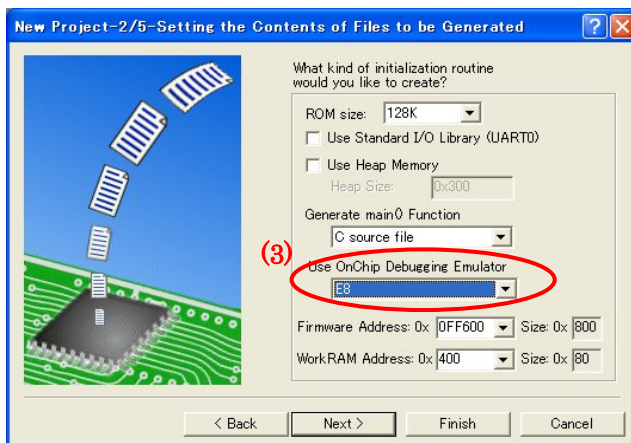
- Create a new workspace with the following settings:
  - (1) In the New Project Workspace dialog box, select “C source startup Application” in project type.



- (2) In the “TargetCPU Toolchain version” page of the wizard dialog box, select “5.42.00” or later in Toolchain version.



- (3) In the “Setting the Contents of Files to be Generated” page of the wizard dialog box, select “E8” in Use Onchip Debugging Emulator.



\*Note:

The E8a emulator debugger supports the selected MCUs, however, you might not be able to select "E8" in the above list box.

This problem will be solved by the revision of the M16C tool chain in the future.

#### 4.5 Note on using Windows Vista®

- Low power mode in Windows Vista®  
When Windows Vista® goes into sleep mode or suspend mode, a communication error may occur in the USB communication between the host machine and the emulator. Therefore, configure Windows Vista® not to enter sleep mode or suspend mode.
- No Help (including the context-sensitive help) may be displayed.  
Install the Windows Help file (WinHlp32.exe file) from Microsoft Corporation's Web site.  
<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=6ebcfad9-d3f5-4365-8070-334cd175d4bb>

#### 4.6 Note on I/O Files

- In this product, the following I/O files are not attached.
  - I/O files for R8C/3xE series, R8C/3xF series, R8C/3xG series, R8C/3xH series , R8C/Mx series and R8C/LxC GroupsWe will release them after their hardware manual Rev.1.00 has been released.
- The incorrect descriptions in the I/O window might be solved by correcting the I/O files.
- You can make or edit the I/O file with a text editor. For details, please refer to “I/O File Format” in High-performance Embedded Workshop Help.

## 5 Version Report

This section describes the specification of the changed software.

### 5.1 R8C E8a Emulator Debugger V.1.04.00

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.03.03.

This version supports all of the function extensions and the revisions to the restrictions in the High-performance Embedded Workshop V.4.06.00 and V.4.07.00. For more details, please refer to the RENESAS TOOL NEWS "090701/tn1" issued on July 1st, 2009 and "091001/tn1" issued on October 1st, 2010.

#### 5.1.1 Supported MCUs Increased

- R8C/M11A group
  - R5F2M110A, R5F2M111A, R5F2M112A
- R8C/M12A group
  - R5F2M120A, R5F2M121A, R5F2M122A
- R8C/LA6A group
  - R5F2LA64A, R5F2LA66A, R5F2LA67A, R5F2LA68A
- R8C/LA8A group
  - R5F2LA84A, R5F2LA86A, R5F2LA87A, R5F2LA88A

#### 5.1.2 Functional Extensions and Modifications

1. Up to now, it was necessary to end the debugger for "Communication timeout error" to occur if there is no response from MCU, and to recover the state. In this version, the state can be recovered without ending the debugger..
2. Trouble shoot collections of E8a emulators can be opened from the following error message display dialog box.
  - "Boot falied"
  - "Communication timeout Error"
  - "ID code error !"
3. In the following MCU of the R8C/3x series, the firmware can be arranged in not only the program flash area but also the data flash area.
  - R8C/3xA Group : R5F21336A, R5F21356A, R5F2135CA, R5F2136CA, R5F2138CA,  
R5F213G6A, R5F213J6A
  - R8C/3xC Group: R5F21336C, R5F21346C, R5F21356C, R5F2135CC, R5F213G6C,  
R5F213J6C
  - R8C/3xE Group: R5F2134CE, R5F2136CE, R5F2138CE
  - R8C/3xG Group: R5F2134CG, R5F2136CG, R5F2138CG

### 5.2 R8C E8a Emulator Debugger V.1.03.03

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.03.02.

#### 5.2.1 Supported MCUs Increased

- R8C/34C group
  - R5F21344C, R5F21345C, R5F21346C
- R8C/3JTCgroup
  - R5F213J4T, R5F213J5T, R5F213J6T

### 5.3 R8C E8a Emulator Debugger V.1.03.02

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.03.01.

#### 5.3.1 Supported MCUs Increased

- R8C/32C group
  - R5F21321C, R5F21322C, R5F21324C



- R8C/33C group  
R5F21331C, R5F21332C, R5F21334C, R5F21335C, R5F21336C
- R8C/34C group  
R5F21347C, R5F21348C, R5F2134AC, R5F2134CC
- R8C/36C group  
R5F21364C, R5F21365C, R5F21366C, R5F21367C, R5F21368C, R5F2136AC, R5F2136CC
- R8C/38C group  
R5F21386C, R5F21387C, R5F21388C, R5F2138AC, R5F2138CC
- R8C/3GC group  
R5F213G1C, R5F213G2C, R5F213G4C, R5F213G5C, R5F213G6C
- R8C/3JC group  
R5F213J2C, R5F213J4C, R5F213J5C, R5F213J6C
- R8C/32D group  
R5F21321D,, R5F21322D,, R5F21324D
- R8C/33D group  
R5F21331D, R5F21332D, R5F21334D, R5F21335D, R5F21336D
- R8C/35D group  
R5F21354D, R5F21355D, R5F21356D
- R8C/3GD group  
R5F213G1D, R5F213G2D, R5F213G4D, R5F213G5D, R5F213G6D
- R8C/33T group  
R5F21334T, R5F21335T, R5F21336T
- R8C/L35C group  
R5F2L357C, R5F2L358C, R5F2L35AC, R5F2L35CC
- R8C/L36C group  
R5F2L367C, R5F2L368C, R5F2L36AC, R5F2L36CC
- R8C/L38C group  
R5F2L387C, R5F2L388C, R5F2L38AC, R5F2L38CC
- R8C/L3AC group  
R5F2L3A7C, R5F2L3A8C, R5F2L3AAC, R5F2L3ACC

## 5.4 R8C E8a Emulator Debugger V.1.03.01

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.03.00.

### 5.4.1 Supported MCUs Increased

- R8C/L35A, R8C/L35B group:  
R5F2L357A, R5F2L358A, R5F2L35AA, R5F2L35CA  
R5F2L357B, R5F2L358B, R5F2L35AB, R5F2L35CB
- R8C/L36A, R8C/L36B group:  
R5F2L367A, R5F2L368A, R5F2L36AA, R5F2L36CA  
R5F2L367B, R5F2L368B, R5F2L36AB, R5F2L36CB
- R8C/L38A, R8C/L38B group:  
R5F2L387A, R5F2L388A, R5F2L38AA, R5F2L38CA  
R5F2L387B, R5F2L388B, R5F2L38AB, R5F2L38CB
- R8C/L3AA, R8C/L3AB group:  
R5F2L3A7A, R5F2L3A8A, R5F2L3AAA, R5F2L3ACA  
R5F2L3A7B, R5F2L3A8B, R5F2L3AAB, R5F2L3ACB

## 5.5 R8C E8a Emulator Debugger V.1.03.00

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.02.00.

This version supports all of the function extensions and the revisions to the restrictions in the High-performance Embedded Workshop V.4.05.00 and V.4.05.01. For more details, please refer to the RENESAS TOOL NEWS “081125/tn1” issued on November 25<sup>th</sup>, 2008 and “090201/tn3” issued on February 1<sup>st</sup>, 2009.

### 5.5.1 Supported MCUs Increased

- R8C/34E, R8C/34F, R8C/34G, R8C/34H group:  
R5F21346E, R5F21347E, R5F21348E, R5F2134AE, R5F2134CE  
R5F21346F, R5F21347F, R5F21348F, R5F2134AF, R5F2134CF  
R5F21346G, R5F21347G, R5F21348G, R5F2134AG, R5F2134CG  
R5F21346H, R5F21347H, R5F21348H, R5F2134AH, R5F2134CH
- R8C/36E, R8C/36F, R8C/36G, R8C/36H group:  
R5F21368E, R5F2136AE, R5F2136CE  
R5F21368F, R5F2136AF, R5F2136CF  
R5F21368G, R5F2136AG, R5F2136CG  
R5F21368H, R5F2136AH, R5F2136CH
- R8C/38E, R8C/38F, R8C/38G, R8C/38H group:  
R5F21388E, R5F2138AE, R5F2138CE  
R5F21388F, R5F2138AF, R5F2138CF  
R5F21388G, R5F2138AG, R5F2138CG  
R5F21388H, R5F2138AH, R5F2138CH
- R8C/35A, R8C/36A, R8C/38A group:  
R5F21357A, R5F21358A, R5F2135AA, R5F2135CA,  
R5F21364A, R5F21365A, R5F21366A, R5F21367A, R5F21368A, R5F2136AA, R5F2136CA,  
R5F21386A, R5F21387A, R5F21388A, R5F2138AA, R5F2138CA,
- R8C/3GA, R8C/3JA group:  
R5F213G2A, R5F213G4A, R5F213G5A, R5F213G6A  
R5F213J2A, R5F213J4A, R5F213J5A, R5F213J6A

### 5.5.2 Functional Extensions and Modifications

1. The debuggers can run on Windows Vista® with your user rights.  
Note, however, the 64-bit Windows Vista has not been supported.
2. The settings selected in creating a new workspace can be applied to the emulator setting dialog box.

## 5.6 R8C E8a Emulator Debugger V.1.02.00

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.01.00.

This version supports all of the function extensions and the revisions to the restrictions in the High-performance Embedded Workshop V.4.04.00 and V.4.04.01. For more details, please refer to the RENESAS TOOL NEWS “071216/tn5” issued on December 16<sup>th</sup>, 2007 and “080118/tn1” issued on January 18<sup>th</sup>, 2008.

### 5.6.1 Supported MCUs Increased

- R8C/28, /29 group:  
R5F21286, R5F21296
- R8C/32A, /33A, /35A group:  
R5F21321A, R5F21322A, R5F21324A  
R5F21331A, R5F21332A, R5F21334A, R5F21335A, R5F21336A  
R5F21354A, R5F21355A, R5F21356A

### 5.6.2 Problems Fixed

1. The following problems have been fixed:  
With debugging target systems designed with MCUs of the R8C/2G or R8C/2H group (RENESAS TOOL NEWS Document No. 080216/tn3)
2. The following problems have been fixed:  
With using the IO files for the R8C/2A, /2B, /2C, and /2D groups included in the debuggers for the R8C/Tiny MCU Series (RENESAS TOOL NEWS Document No. 080616/tn8)

### 5.6.3 Functional Extensions and Modifications

1. Debug functions that R8C/3x have been supported.

2. The automatic sampling period of the watch-points was sped up.
3. MR window has been supported.
4. OS Object window has been supported.

## 5.7 R8C E8a Emulator Debugger V.1.01.00

In this version, the following specifications were changed from the previous version R8C E8a Emulator Debugger V.1.00.00.

This version supports all of the function extensions and the revisions to the restrictions in the High-performance Embedded Workshop V.4.03.00. For more details, please refer to the RENESAS TOOL NEWS “070701/tn1” issued on July 1<sup>st</sup>, 2007.

### 5.7.1 Supported MCUs Increased

- R8C/2E, /2F group:
  - R5F212E2, R5F212E4
  - R5F212F2, R5F212F4
- R8C/2G, /2H, /2J group:
  - R5F212G4, R5F212G5, R5F212G6
  - R5F212H1, R5F212H2
  - R5F212J0, R5F212J1
- R8C/2K, /2L group:
  - R5F212J0, R5F212J1
  - R5F212L2, R5F212L4

### 5.7.2 Problems Fixed

1. The following problems have been fixed:
  - With debugging systems designed with a member of the R8C/22 group of MCUs (RENESAS TOOL NEWS Document No. 071001/tn7)
2. The following problems have been fixed:
  - If you select the Debugging of CPU rewrite mode in the Emulator Setting dialog box that appears when the debugger is invoked, and if you modify values in the data flash area in the Memory or Watch window, the contents of the un-modified data flash area will resume those before CPU reprogramming is performed by the user program.
  - When you load the user program into the target system, no error message may be dispatched even if the user program area overlaps the area occupied by the emulator debugger.

## 5.8 R8C E8a Emulator Debugger V.1.00.00

The first version