

R0E535M00MCU00 Release Notes - Read this before using this product -

Renesas Solutions Corp.

This document contains the information necessary for using this product. Be sure to read this before using the product.

Introduction

The R0E535M00MCU00 is an MCU unit for the M16C/50 Series M16C/5M, M16C/5L, M16C/56, M16C/5LD and M16C/56D Groups of Renesas 16-bit MCUs.

Product Outline

This product consists of the following two products.

- (1) MCU unit: R0E535M00MCU00
This is an MCU unit (board) for the M16C/50 Series M16C/5M, M16C/5L, M16C/56, M16C/5LD and M16C/56D Groups.
- (2) M16C E100 Emulator Software
The Included software is stored in the CD-ROM.
- M16C R8C E100 Emulator Debugger
This is a control software for the M16C E100 Emulator to control the R0E535M00MCU00 emulator.

For the Latest Information

Visit our website (URL below). Please use this website providing the latest information of Renesas tool products. Furthermore, the latest version of the included software (emulator debugger and evaluation version C compiler package) can be downloaded.

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

Setup Guide

For details, refer to...

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| 1. Check the contents | >>"Package Components" |
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| 2. Install emulator debugger | >>"Installing the Included Software Products" |
| ▼ | |
| 3. Register your R0E535M00MCU00 | >>R0E535M00MCU00 User's Manual "User Registration" |
| ▼ | |
| 4. Setup hardware and turn on the emulator | >>R0E535M00MCU00 User's Manual "Chapter 2. Setup" |
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| 5. Startup the High-performance Embedded Workshop and the emulator debugger | >>R0E535M00MCU00 User's Manual "Chapter 3. Tutorial" |
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| 6. For usage of each product | >>R0E535M00MCU00 User's Manual "Chapter 5. Debugging Functions" |
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Package Components

Check to see if your product package contains all of the following items before using the product.

1	R0E535M00MCU00 MCU unit	1
2	R0E535M00MCU00 Release Notes (this document)	1
	R0E535M00MCU00 Release Notes (Japanese)	1
3	Repair Request Sheet (English)	1
	Repair Request Sheet (Japanese)	1
4	CD-ROM - M16C R8C E100 Emulator Software	1

If any of these items are missing or found faulty, please contact your local distributor.

Operating Environment of the Included Software Products

The operating environments of the included software products are shown below.

- (1) Operating environment of the host machine (Windows® XP)

Host machine	IBM PC/AT compatibles
OS	Windows® XP 32-bit editions *1 *2
CPU	Pentium 4 running at 1.6 GHz or more recommended
Memory	1 Gbyte or larger (more than 10 times the file size of the load module) recommended

- (2) Operating environment of the host machine (Windows Vista® or Windows® 7)

Host machine	IBM PC/AT compatibles
OS	Windows Vista® 32-bit editions *1 *3 Windows® 7 32-bit edition / 64-bit edition *1
CPU	Pentium 4 running at 3GHz or Core 2 Duo running at 1GHz or more recommended
Memory	2 Gbyte or larger (more than 10 times the file size of the load module)recommended (32-bit edition) 3 Gbyte or larger (more than 10 times the file size of the load module)recommended (64-bit edition)

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

*2 The 64-bit editions of Windows® XP are not supported.

*3 The 64-bit editions of Windows Vista® are not supported.

To Contact Us

For the emulator R0E535M00MCU00 and emulator debugger, fill in the text file which is downloaded from the following URL, then send the information to your local distributor.

<http://tool-support.renesas.com/eng/toolnews/registration/support.txt>

Installing the Included Software Products

After inserting the included CD-ROM into the host machine's CD-ROM drive, the installation window will open. Please install the product by following the menu of the dialog box.

Before installing the debugger, check that the High-performance Embedded Workshop is not started up on the PC environment you use and that any Renesas emulator is not connected to the PC.

- * If using Windows Vista®, Windows® XP or Windows® 7 as the host machine OS, have the software installed by someone of administrator access level. Installation cannot be completed by users with lower access level status.

When a PC Running Windows Vista® Cannot Communicate with the Emulator

After connecting the E100 emulator to the host machine, power on the emulator. Then open the Device Manager and select Renesas USB Driver, and open its [Properties] dialog box. On [General] tab you can check the [Device status]. If it does not show "This device is working properly.", follow the procedure listed below to install the USB driver manually.

1. Double click dpinst.exe stored in the attached CD-ROM, in a directory:
<drive name>\e100_m16c\drivers\2000_XP_Vista\32bit\, to execute dpinst.exe.
2. You'll see a [User Account Control] dialog box titled "An unidentified program wants access to your computer" and stating "Don't run the program unless you know where it's from or you've used it before." To continue the installation, click [Allow].
*dpinst.exe is a driver package installation utility provided by Microsoft.
3. When [Device Driver Installation Wizard] appears, click the [Next] button.
4. A dialog box appears asking "Would you like to install this device software?" Then, click the [Install] button.
5. When the driver installation is complete, click the [Finish] button on the [Device Driver Installation Wizard].

Precautions for Using the Included Software Products

Release notes are installed during the software installation. Read it before using the software product.

- * Electronic manuals and release notes are included in the software package. To view electronic documents, download Adobe Reader from Adobe Systems website (<http://www.adobe.com/>). Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Applicable MCU Groups

The R0E535M00MCU00 is available for the M16C/50 Series M16C/5M, M16C/5L and M16C/56 Groups MCUs by using with the following converter boards. Also, the M16C/5LD and M16C/56D Groups are supported. When using the M16C/5LD or M16C/56D Groups, select M16C/5L or M16C/56 from the Group list box on the Device setting dialog box.

Converter board	Applicable MCU Groups
R0E0100TNPFK00 (PLQP0100KB-A)	: M16C/5M Group R5F35MAExFB (256KB ROM)
R0E535M00CFK30 (PLQP0080KB-A)	: M16C/5M Group R5F35MBExFE (256KB ROM) : M16C/5L Group R5F35L23xFE (96KB ROM) R5F35L26xFE (128KB ROM) R5F35L2ExFE (256KB ROM)
R0E535M00CFK40 (PLQP0064KB-A)	: M16C/5M Group R5F35MCExFF (256KB ROM) : M16C/5L Group R5F35L30xFF (64KB ROM) R5F35L33xFF (96KB ROM) R5F35L36xFF (128KB ROM) R5F35L86xFF (128KB ROM) R5F35L3ExFF (256KB ROM) R5F35L8ExFF (256KB ROM)
	: M16C/56 Group R5F35623xFE (96KB ROM) R5F35626xFE (128KB ROM) R5F35676xFE (128KB ROM) R5F3562ExFE (256KB ROM)
	: M16C/56 Group R5F35630xFF (64KB ROM) R5F35680xFF (64KB ROM) R5F35633xFF (96KB ROM) R5F35636xFF (128KB ROM) R5F3563ExFF (256KB ROM)

Restrictions on Using the Emulator

This product has the following restrictions. Note that these restrictions apply only when using the emulator. When using an actual MCU, check the hardware manual of the MCU.

- (1) When using the emulator, the I/O port P8_5 is an N-channel open-drain output port.
 - a) M16C/5L, M16C/56, M16C/5LD and M16C/56D Groups (I/O port: CMOS output)
When using the I/O port P8_5 as an output port, an external pull-up resistor of the VCC level is needed on the user system (Min: 1 kΩ).
 - b) M16C/5M Group (I/O port: N-channel open-drain output)
No limitations apply to the I/O port P8_5 because the function of the port in the evaluation MCU is the same as that in the actual MCU.
- (2) The M16C/5LD and M16C/56D group MCUs have limitations on the functions of the multi-master I²C-bus interface which do not apply when using this MCU unit. Refer to the hardware manual of the MCU.

Note on the User's Manual

You can download the latest manuals from the Renesas Tools homepage (<http://www.renesas.com/tools>).