

RENESAS TOOL NEWS on October 29, 2009: 091029/tn2

## Flash Development Toolkit Revised to V.4.04 Release 00

We have revised Flash Development Toolkit from V.4.03 Release 02 to V.4.04 Release 00. This product is used to program the flash ROMs of the MCUs in the SuperH RISC engine, RX, M16C, H8SX, H8S, H8, R8C, and 740 families.

For details of the product, go to:

<http://www.renesas.com/fdt> (This URL is one of our global sites.)

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### 1. Descriptions of Revision

#### 1.1 Supported MCUs Increased

The following MCUs have been added to the support line:

##### (1) In the SuperH RISC engine family

- SH72531FCC and SH72531F

The flash ROMs of these MCUs are programmable either via the RS-232C port or via the E8a emulator.

##### (2) In the RX610 group, RX family

- R5F56108, R5F56107, R5F56106, and R5F56104

The flash ROMs of these MCUs are programmable via the RS-232C port.

##### (3) In the H8 family

- H8/38606F

By using the debugging interface or the boot mode interface of the MCU, the flash ROM of this MCU is programmable either via the RS-232C port or via the E8a emulator.

##### (4) In the R32C/100 series, M16C family

- R5F6461F, R5F6461E, R5F64611, R5F64610 (the R32C/161 group)
- R5F6460F, R5F6460E, R5F64601, R5F64600 (the R32C/160 group)

The flash ROMs of these MCUs are programmable either via the RS-232C port or via the E8a emulator.

### **(5) In the M16C/60 series, M16C family**

- R5F3650K, R5F3650M, R5F3650N, R5F3651K, R5F3651M, R5F3651N, and R5F36526 (the M16C/65 group)
- R5F364AM (the M16C/64A group)

The flash ROMs of these MCUs are programmable either via the RS-232C port or via the E8a emulator.

The 7-wired programming or the 2-wired programming method is usable in the E8a.

To program a flash ROM, be sure to select the programming mode of the flash ROM as follows:

- Standard I/O mode 2 for the RS-232C port
- Standard I/O mode 1 for the E8a emulator in the 7-wired programming
- Standard I/O mode 3 for the E8a emulator in the 2-wired programming

### **(6) In the M16C/50 series, M16C family**

- R5F35676 and R5F35680 (the M16C/56 and /56D groups)
- R5F35L80, R5F35L83, R5F35L86, and R5F35L8E (the M16C/5L and M16C/5LD groups)

The flash ROMs of these MCUs are programmable either via the RS-232C port or via the E8a emulator.

The 7-wired programming or the 2-wired programming method is usable in the E8a.

To program a flash ROM, be sure to select the programming mode of the flash ROM as follows:

- Standard I/O mode 2 for the RS-232C port
- Standard I/O mode 1 for the E8a emulator in the 7-wired programming
- Standard I/O mode 3 for the E8a emulator in the 2-wired programming

### **(7) In the R8C/3x series, R8C family**

- R5F21346E, R5F21347E, R5F21348E, R5F2134AE, R5F2134CE, R5F21346F, R5F21347F, R5F21348F, R5F2134AF, R5F2134CF, R5F21346G, R5F21347G, R5F21348G, R5F2134AG, R5F2134CG, R5F21346H, R5F21347H, R5F21348H, R5F2134AH, and R5F2134CH (the R8C/34E, R8C/34F, R8C/34G, and R8C/34H groups)
- R5F21368E, R5F2136AE, R5F2136CE, R5F21368F, R5F2136AF, R5F2136CF, R5F21368G, R5F2136AG, R5F2136CG, R5F21368H, R5F2136AH, and R5F2136CH (the R8C/36E, R8C/36F, R8C/36G, and R8C/36H groups)
- R5F21388E, R5F2138AE, R5F2138CE, R5F21388F, R5F2138AF, R5F2138CF, R5F21388G, R5F2138AG, R5F2138CG, R5F21388H, R5F2138AH, and

R5F2138CH (the R8C/38E, R8C/38F, R8C/38G and R8C/38H groups)  
The flash ROMs of these MCUs are programmable either via the RS-232C port or via the E8a emulator.

## 1.2 Supported Interfaces Increased

(1) The flash ROMs of the following MCUs are programmable via the interface for the emulator mode of the E8a emulator in addition to via the RS-232C port and via the HS0008EAUF1H board (a discontinued product):

### In the H8 family

- H8/38776F, H8/38086RF, H8/38076RF, H8/38444F, H8/38424F, H8/38344F, H8/38324F, H8/38024F, and H8/38004F

(2) The flash ROMs of the following MCUs are programmable via the E8a emulator in the 2-wired programming in addition to via the RS-232C port and via the E8a emulator in the 7-wired programming:

### In the M16C/60 series, M16C family

- R5F36CAM, R5F36CAK, R5F36CAE, and R5F36CA6 (the M16C/6C group)
- R5F3651E, R5F3650E, and R5F36506 (the M16C/65 group)
- R5F364AE and R5F364A6 (the M16C/64A group)
- R5F363BE, R5F363B6, R5F363AM, R5F363AK, R5F363AE, and R5F363A6 (the M16C/63 group)

### In the M16C/50 series, M16C family

- R5F35L3E, R5F35L36, R5F35L33, R5F35L30, R5F35L2E, R5F35L26, and R5F35L23 (the M16C/5L and M16C/5LD groups)
- R5F3563E, R5F35636, R5F35633, R5F35630, R5F3562E, R5F35626, and R5F35623 (the M16C/56 and M16C/56D groups)

(3) The flash ROMs of the following MCUs are programmable via the RS-232C port in addition to via the E8a emulator:

### In the M16C/Tiny series, M16C family

- M30280FA (the M16C/28 group)

### In the R8C/2x series, R8C family

- R5F212AC, R5F212AA, R5F2123C, R5F2123A, R5F21238, and R5F21236

## 2. Problem Fixed

The following two problems have been fixed:

- Problem with block-erasing of flash ROMs in the 96-KB version of the R8C/Lx series, R8C family of MCUs.
- With using MCUs in the USB Boot mode.

For details, see RENESAS TOOL NEWS Document No. 091029/tn1.

You can also see this item of news at:

<http://tool-support.renesas.com/eng/toolnews/091029/tn1.htm>  
This Web page will be opened from October 30.

### 3. How to Update Your Product and Purchase the Revised One

#### 3.1 Updating

When you are using Flash Development Toolkit V.4, online update is available free of charge. Update yours in either of the following ways:

(1) Use AutoUpdate Utility. This service will be available on and after October 30.

(2) Download the update program of the product from:

[http://www.renesas.com/fdt\\_download](http://www.renesas.com/fdt_download)

Then execute it. This site will be opened from October 30.

The above URL is one of our global sites.

#### 3.2 First Ordering

When you place an order for the product, supply the following items of information to your local Renesas Technology sales office or distributor:

Product type: Flash Development Toolkit

Type name: ROC00000FDW04R

Host OS: Windows Vista(R), Windows(R) XP, or Windows(R) 2000

**NOTICE:** The product is incompatible with the 64-bit edition of Windows Vista(R)

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