

RENESAS TOOL NEWS on April 16, 2010: 100416/tn3

## A Note on Using Flash Development Toolkit

Please take note of the following problem in using Flash Development Toolkit:

- With performing the forced erase function in the M16C MCU family
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### 1. Product and Versions Concerned

Flash Development Toolkit

V.4.01 Release 00 through V.4.05 Release 01

### 2. MCUs Involved

The following MCUs of the M16C family are involved in this problem:

(1) In the M16C/50 series

- R5F3568E, R5F35686, R5F35683, R5F35680, R5F3567E, R5F35676, R5F35673, R5F3563E, R5F35636, R5F35633, R5F35630, R5F3562E, R5F35626, and R5F35623 (M16C/56 group)
- R5F3563E, R5F35636, R5F35633, R5F35630, R5F3562E, R5F35626, and R5F35623 (M16C/56D group)
- R5F3573E, R5F3572E, R5F3571E, R5F35736, R5F35733, R5F35626, R5F35723, and R5F35716 (M16C/57 group)
- R5F35L8E, R5F35L86, R5F35L83, R5F35L80, R5F35L7E, R5F35L76, R5F35L73, R5F35L3E, R5F35L36, R5F35L33, R5F35L30, R5F35L2E, R5F35L26, and R5F35L23 (M16C/5L group)
- R5F35L3E, R5F35L36, R5F35L33, R5F35L30, R5F35L2E, R5F35L26, and R5F35L23 (M16C/5LD group)
- R5F35MCE, R5F35MC6, R5F35MC3, R5F35MBE, R5F35MB6, R5F35MB3, R5F35MAE, R5F35MA6, R5F35M3E, R5F35M36, R5F35M33, R5F35M2E, R5F35M26, R5F35M23, R5F35M1E, and R5F35M16 (M16C/5M group)

(2) In the M16C/60 series

- R5F363BE, R5F363B6, R5F363AM, R5F363AK, R5F363AE, and R5F363A6 (M16C/63 group)
- R5F3640M and R5F3640D (M16C/64 group)
- R5F364AM, R5F364AE, and R5F364A6 (M16C/64A group)

- R5F36526, R5F3651T, R5F3651R, R5F3651N, R5F3651M, R5F3651K, R5F3651E, R5F3650T, R5F3650R, R5F3650N, R5F3650M, R5F3650K, R5F3650E, and R5F36506 (M16C/65 group)
- R5F36B4B and R5F36B3E (M16C/6B group)
- R5F36CAM, R5F36CAK, R5F36CAE, and R5F36CA6 (M16C/6C group)

### 3. Description of the Problem

When you type the value of "ALeRASE" into the ID code dialog box of Flash Development Toolkit to perform the forced erase function, the ID code check failure error arises, and the above function cannot be performed.

Here, "ALeRASE" is represented in the ASCII code, and the forced erase function erases the areas of Program ROM1 and Program ROM2.

This problem arises if the following conditions are both satisfied in flash memory:

- (1) In the Optional Function Select Address 1 address (address OFS1), bit ROMCP1 is set to "1" or bit ROMCR is cleared to "0" to cancel ROM code protection.
- (2) In the ID code storage address, any value except that of "ALeRASE" is stored.

### 4. Workaround

To avoid this problem, perform the forced erase function in the Writing Flash Memory mode of the E8a emulator. For how to use the E8a emulator in this mode, see the E8a Emulator User's Manual. To download this manual, go to:

[https://www.renesas.com/e8a\\_document](https://www.renesas.com/e8a_document)  
The above URL is one of our global sites.

### 5. Schedule of Fixing the Problem

We plan to fix this problem in Flash Development Toolkit V.4.06 Release 00, which will be released at the end of July 2010.

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