

# Microcontroller Technical Information

RA78K0 78K0 Assembler Package (for English/Japanese Version Windows) Upgrade	Document No.	ZMT-F35-10-0001	1/3
	Date issued	November 1, 2010	
	Issued by	MCU Tool Product Marketing Department MCU Software Division MCU Business Unit Renesas Electronics Corporation	
Related documents RA78K0 Ver. 4.10 Operating Precautions: ZUD-CD-10-0200	Document classification		Usage restriction
		√	Upgrade
			Document modification
			Other notification

## 1. Product types and version

Product	Outline	Old Version	New Version
μSxx17RA78K0	78K0 assembler package RA78K0	Ver. 4.01	Ver. 4.10

Product	Outline	Target Version
μSxx17SP78K0	78K0 software package SP78K0	Ver. 4.01

**Remark** xx indicates AB or BB.

## 2. Upgrade details

The major revisions in RA78K0 Ver. 4.10 are shown below. For details, see *RA78K0 Ver. 4.10 Operating Precautions* (ZUD-CD-10-0200) supplied with the product.

- (1) Addition of options used to specify and output a variable information file
  - The `-ma` option, which is used to specify a variable information file, has been added.
  - The `-vo` option, which is used to output a variable information file, and the `-vs` option, which is used to specify the `saddr` area margin size, have been added.
- (2) Addition of an option used to specify displaying the ROM/RAM usage  
The `-vx` option, which is used to display the ROM/RAM usage, has been added.
- (3) Addition of user-specified option bytes  
The `-gb` option, which is used to specify the user-specified option bytes, has been added.
- (4) Support of extended function registers (EFRs)

### 3. How to upgrade

#### (1) $\mu$ SAB17RA78K0 and $\mu$ SBB17RA78K0

- If the CD is not required: Free upgrade

Download the upgraded software from the **Development Tools Download** webpage. When using this method, the CD will not be delivered but the upgrade is free of charge.

English version: <http://www2.renesas.com/micro/en/ods/> → Click **Version-up Service**.

Japanese version: <http://www2.renesas.com/micro/ja/ods/>

- If the CD is required: Charged upgrade

Fill in the essential items in the attachment *Application for Software Product Charged Upgrade* and send it to a Renesas Electronics distributor or sales representative. When using this method, a fee will be charged for the upgrade and the CD will be delivered.

The part number to be entered in the form depends on the purchased product. The correspondence between the purchased product and the part number after upgrade is as follows:

Purchased Product	Part Number for Charged Upgrade
$\mu$ SAB17RA78K0	$\mu$ SAB17RA78K0-S
$\mu$ SAB17RA78K0-5	$\mu$ SAB17RA78K0-5-S
$\mu$ SAB17RA78K0-10	$\mu$ SAB17RA78K0-10-S
$\mu$ SAB17RA78K0-20	$\mu$ SAB17RA78K0-20-S
$\mu$ SAB17RA78K0-50	$\mu$ SAB17RA78K0-50-S
$\mu$ SBB17RA78K0	$\mu$ SBB17RA78K0-S
$\mu$ SBB17RA78K0-5	$\mu$ SBB17RA78K0-5-S
$\mu$ SBB17RA78K0-10	$\mu$ SBB17RA78K0-10-S
$\mu$ SBB17RA78K0-20	$\mu$ SBB17RA78K0-20-S
$\mu$ SBB17RA78K0-50	$\mu$ SBB17RA78K0-50-S

#### (2) $\mu$ SAB17SP78K0 and $\mu$ SBB17SP78K0

- Free upgrade (without the CD)

Download the upgraded software (RA78K0) from the **Development Tools Download** webpage. When using this method, the CD will not be delivered but the upgrade is free of charge. Because this is an upgrade of only one of the SP78K0 components, only the relevant tool is downloaded.

English version: <http://www2.renesas.com/micro/en/ods/> → Click **Version-up Service**.

Japanese version: <http://www2.renesas.com/micro/ja/ods/>

#### 4. Upgrade start date

(1) Free upgrade (without the CD)

The upgraded product has been downloadable from the website since October 21, 2010.

(2) Charged upgrade (with the CD)

From November 1, 2010

**Application for Software Product Charged Upgrade**

Customers wishing to upgrade the product by using the charged upgrade (with the CD) are requested to fill out the following form and send it to a *Renesas Electronics distributor or sales representative*.

Upgrade Product	Version
RA78K0 (for Windows)	Ver. 4.10

**Application cut-off date: January 31, 2011**

To be filled in by customers

Part number	$\mu$ S__ __17RA78K0-
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\* Write the *part number of charged upgrade product* corresponding to the part number of the product being used. If you have purchased multiple licenses, be sure to write S and numbers after the hyphen.

Serial number (10 digits)	
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\* Write the 10-digit serial number indicated on the program product license or the CD case of the product. If you already upgraded your product, you received a new serial number. However, write the *serial number provided when the product was first purchased* in the above column.

Company name	
Department name	
Name of applicant	
E-mail address	
Date of application	

To be filled in by the distributor or Renesas Electronics sales representative

Name of distributor	
Person in charge	
Date of application	
Ordering code	

\* The ordering code is required for the charged upgrade. Fill in the code that was used for inputting the order.