

# Microcontroller Technical Information

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<p style="text-align: center;">RA78K0R 78K0R Assembler Package (for Japanese Version Windows) Upgrade</p>		Document No.	ZBG-CD-07-0001	1/2
		Date issued	January 16, 2007	
		Issued by	Development Tool Group Multipurpose Microcomputer Systems Division 4th Systems Operations Unit NEC Electronics Corporation	
Related documents	RA78K0R Ver. 1.10 Operating Precautions: ZUD-CD-06-0188	Document classification		Usage restriction
			√	Upgrade
				Document modification
				Other notification

## 1. Product types and version

Product	Outline	Old Version	New Version
μSAB17RA78K0R	78K0R assembler package RA78K0R	Ver. 1.00	Ver. 1.10

Product	Outline	Target Version
μSAB17SP78K0R	78K0R software package SP78K0R	Ver. 1.00

## 2. Upgrade details

The major revisions in RA78K0R Ver. 1.10 are shown below. For details, refer to *Assembler Package RA78K0R Ver. 1.10 Operating Precautions* (ZUD-CD-06-0188) supplied with the product.

### (1) Removal of usage restrictions

Three restrictions have been removed.

### (2) Change in handling of segments @@INIS, @@DATS and @@BITS in the linker

If the size of segment @@INIS, @@DATS or @@BITS is 0 during linking, it is now relocated as a segment with relocation attribute UNIT or UNITP.

### (3) Check for overlapping of general-purpose register and variable

A warning is now output by the linker if a register bank and variable are overlapped

### 3. How to upgrade

- When CD-ROM medium is not required: Free upgrade

Download the software through the Development Tools Download webpage. When using this method, the supply medium will not be delivered but the upgrade is free of charge.

URL: <http://www.necel.com/micro/ods/jpn/>

- When CD-ROM medium is required: Charged upgrade

Fill in the essential items in the attachment "Application for Software Product Charged Upgrade" and submit it to a distributor or NEC Electronics sales representative. When using this method, a fee will be charged for the upgrade and the CD-ROM medium will be delivered.

The part number to be entered in the form varies depending 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
$\mu$ SAB17RA78K0R	$\mu$ SAB17RA78K0R-S
$\mu$ SAB17RA78K0R-5	$\mu$ SAB17RA78K0R-5-S
$\mu$ SAB17RA78K0R-10	$\mu$ SAB17RA78K0R-10-S
$\mu$ SAB17RA78K0R-20	$\mu$ SAB17RA78K0R-20-S
$\mu$ SAB17RA78K0R-50	$\mu$ SAB17RA78K0R-50-S

### 4. Upgrade start date

- (1) Free upgrade (without CD-ROM medium)

The upgraded product has been downloadable through the website from December 25, 2006.

- (2) Charged upgrade (with CD-ROM medium)

From January 16, 2007

**Application for Software Product Charged Upgrade**

Customers wishing to upgrade the product by “Charged upgrade (with CD-ROM medium)” are requested to fill out the following form and submit it to a **distributor** or **NEC Electronics sales representative**.

Upgrade Product	Version
RA78K0R (for Japanese Version Windows)	Ver. 1.10

**Application cut-off date: April 27, 2007**

[To be filled in by customers]

Part No. of charged upgrade product	$\mu$ SAB17RA78K0R-
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\* Write the part number of charged upgrade product corresponding to the part number of the product being used. If two or more licenses have been purchased, be sure to write S and numbers after the hyphen.

Serial No. (10 digits)	
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\* Write the 10-digit serial number indicated on the program product license or the CD-ROM case of the product. If the product has already been upgraded, a new serial number has been provided. 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 NEC 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.