

# Microcontroller Technical Information

RA78K0S 78K0S Assembler Package (for English/Japanese Version Windows) Upgrade		Document No.	ZBG-CD-07-0077	1/2
		Date issued	October 31, 2007	
		Issued by	Development Tool Solution Group Multipurpose Microcomputer Systems Division Microcomputer Operations Unit NEC Electronics Corporation	
Related documents	RA78K0S Ver. 2.00 Operating Precautions: ZUD-CD-07-0123	Document classification		Usage restriction
			√	Upgrade
				Document modification
				Other notification

## 1. Product types and version

Product	Outline	Old Version	New Version
μSXX17RA78K0S	78K0S assembler package RA78K0S	Ver. 1.40	Ver. 2.00

Product	Outline	Target Version
μSXX17SP78K0S	78K0S software package SP78K0S	Ver. 2.00

XX indicates AB or BB.

## 2. Upgrade details

The major revisions in RA78K0S Ver. 2.00 are shown below. For details, refer to *RA78K0S Ver. 2.00 Operating Precautions* (ZUD-CD-07-0123) supplied with the product.

### (1) Removal of usage restrictions

Eight restrictions have been removed.

For details, refer to *78K0S Assembler Package RA78K0S Usage Restrictions* (ZBG-CD-07-0048).

### (2) Extension of module name length

The length of a module name (NAME quasi directive) is extended from eight characters to 256 characters.

### (3) Duplication check for general register area and data

All segments are now checked for whether they do not overlap with a general register area after data is allocated, and a warning message is output if they overlap

### 3. How to upgrade

- (1) For  $\mu$ SBB17RA78K0S (English version) and  $\mu$ SAB17RA78K0S (Japanese version)

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

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

URL: English version: <http://www.necel.com/micro/ods/eng/> → Click “Version-up Service”.

Japanese version: <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
$\mu$ SXX17RA78K0S	$\mu$ SXX17RA78K0S-S
$\mu$ SXX17RA78K0S-5	$\mu$ SXX17RA78K0S-5-S
$\mu$ SXX17RA78K0S-10	$\mu$ SXX17RA78K0S-10-S
$\mu$ SXX17RA78K0S-20	$\mu$ SXX17RA78K0S-20-S
$\mu$ SXX17RA78K0S-50	$\mu$ SXX17RA78K0S-50-S

XX indicates AB or BB.

- (2) For  $\mu$ SBB17SP78K0S (English version) and  $\mu$ SAB17SP78K0S (Japanese version)

- Free upgrade (when CD-ROM medium is not required)

Download the upgraded software (RA78K0S) from the Development Tools Download webpage. When using this method, the supply medium will not be delivered but the upgrade is free of charge. (Only an upgraded tool of the SP78K0S will be downloaded.)

URL: English version: <http://www.necel.com/micro/ods/eng/> → Click “Version-up Service”.

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

### 4. Upgrade start date

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

The upgraded product has been downloadable from the website since October 16, 2007.

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

From October 31, 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
RA78K0S (for English/Japanese version Windows)	Ver. 2.00

**Application cut-off date: December 25, 2007**

[To be filled in by customers]

Part No. of charged upgrade product	$\mu$ S___17RA78K0S-
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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.