

# Microcontroller Technical Information

SM+ for 78K0R System Simulator for 78K0R (for English Version Windows) Upgrade	Document No.	ZBG-CD-09-0019	1/2
	Date issued	March 23, 2009	
	Issued by	Development Tool Solution Group Multipurpose Microcomputer Systems Division Microcomputer Operations Unit NEC Electronics Corporation	
Related documents SM+ System Simulator for Operation: U18601EJ1V0 (1st edition) SM+ System Simulator for User Open Interface: U18212EJ2V0 (2nd edition) SM+ for 78K0R, System Simulator for 78K0R - Usage Restrictions: ZBG-CD-08-0037 (1st edition)	Document classification		Usage restriction
		√	Upgrade
			Document modification
			Other notification

## 1. Product types and version

Product	Outline	Old Version	New Version
μSBB17SM781000	SM+ for 78K0R, a system simulator for 78K0R (for English version windows)	Ver. 2.21	Ver. 2.41

Product	Outline	Target Version
μSBB17SP78K0R	SP78K0R, a software package for 78K0R (for English version windows)	Ver. 1.10

## 2. Upgrade details

The major revisions in SM+ for 78K0R Ver. 2.41 are shown below. For details, see *System Simulator SM+ for 78K0R V2.41 (SM781000) Operating Precautions (Instruction Simulation Version)* (ZUD-CD-08-0143) supplied with the product.

### (1) Addition and modification of specifications

The following functions are now supported.

- Support of computers with functions such as dual core CPU
- Support of Windows Vista
- Improvement of SFR window view specifications
- Addition of options for *xcoverage* command
- Enhancement of debug functions along with enhancement of optimization in C compiler and assembler
- Expansion of contents to be saved in a project file

### (2) Removal of usage restrictions

- Restrictions on debugger functions: 36 issues:

No. 1, 6, 10, 15, 17, 18, 20, 24, 26, 29, 30, 33, 39, 42, 43, 47 to 56, and 58 to 68

- Restrictions on simulator functions: 5 issues: No. 3, 10, and 13 to 15

\* The numbers are those used in *System Simulator SM+ for 78K0R V2.41 (SM781000) Operating Precautions (Instruction Simulation Version)* (ZUD-CD-08-0143).

### 3. How to upgrade

- When the CD is not required: Free upgrade

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

URL: <http://www.necel.com/micro/en/ods/> → Click "Version-up Service".

- When the CD 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 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
$\mu$ SBB17SM781000	$\mu$ SBB17SM781000-S
$\mu$ SBB17SM781000-5	$\mu$ SBB17SM781000-5-S
$\mu$ SBB17SM781000-10	$\mu$ SBB17SM781000-10-S
$\mu$ SBB17SM781000-20	$\mu$ SBB17SM781000-20-S
$\mu$ SBB17SM781000-50	$\mu$ SBB17SM781000-50-S

### 4. Upgrade start date

- (1) Free upgrade (without the CD)

The upgraded product will be downloadable from the website from April 6, 2009.

- (2) Charged upgrade (with the CD)

From April 6, 2009

**Application for Software Product Charged Upgrade**

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

Upgrade Product	Version
SM+ for 78K0R (for English version Windows)	Ver. 2.41

**Application cut-off date: October 6, 2009**

[To be filled in by customers]

Part No. of charged upgrade product	$\mu$ SBB17SM781000-
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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 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.