Microcomputer Technical Information

CP(K), O

DF703107 Device File for V850 Series V850E/MA1 Upgrade		Document No.	ZBG-CD-04-0045	1/2
		Date issued	July 26, 2004	
		Issued by	Development Tool Group Multipurpose Microcomputer Systems Division 3rd Systems Operations Unit NEC Electronics Corporation	
Related documents	Device File DF703107 (V1.21) User's Manual: ZUD-CD-04-0025 DF703107 Device File for V850E/MA1 Usage Restrictions: ZBG-CD-04-0028	Document classification		Usage restriction
			√	Upgrade
				Document modification
				Other notification

1. Product types and version

Product	Outline	Old Version	New Version
μSxx13DF703107	Device file DF703107 for V850 Series V850E/MA1	V1.20	V1.21

Product	Outline	Target Version
μSxx17SP850	V850 Series software package SP850	V2.00 or later

Note xx indicates AB or BB.

2. Details of upgrade

The major revisions in DF703107 V1.21 are shown below. For details, refer to "Device File DF703107 (V1.21) User's Manual (ZUD-CD-04-0025)" supplied with the product.

(1) The following peripheral I/O register bit access attributes have been modified.

ADM1 (0x0fffff201)　　1-/8-bit, R/W[Note]　→　8-bit, R/W[Note]

DTOC (0x0fffff8a0)　　8-bit, R/W[Note]　→　1-/8-bit, R/W[Note]

(2) Reading the following bit registers of the peripheral I/O registers is now prohibited.

E00, STG0, INT0, MLE0, TC0, E11, STG1, INT1, MLE1, TC1,

E22, STG2, INT2, MLE2, TC2, E33, STG3, INT3, MLE3, TC3

(3) The following peripheral I/O register bit access attributes have been modified.

C0　　E[Note] → R[Note]

TC1　　E[Note] → R[Note]

TC2　　E[Note] → R[Note]

TC3　　E[Note] → R[Note]

Note　　E: Read/Write, R: Read only, W: Write only

(4) The bit reserved words of the following peripheral I/O registers have been added.

TCO0 (bit 0 of DTOC), TCO1 (bit 1 of DTOC), TCO2 (bit 2 of DTOC), TCO3 (bit 3 of DTOC)

(5) The following peripheral I/O register bit access attributes have been modified.

IMR3L   RRRRRRRE^{Note} →   EEEEEEEE^{Note}

IMR3H   RRRRRRRE^{Note} →   EEEEEEEE^{Note}

BCP   0000EEEE^{Note} →   E000E000^{Note}

Note   The attributes are read from left to right in the order bit 7, bit 6, bit 5, … bit 0.

E: Read/Write, R: Read only, W: Write only, 0: Fixed to 0

3. How to upgrade

(1) μSxx13DF703107

• Free upgrade (without supply medium)

Download the software through ODS (online delivery service). When using this method, the supply medium will not be delivered but the upgrade is free of charge.

Note   Access the following URL.

http://www.necel.com/micro/ods/eng/ (μSBB13DF703107; English version)

http://www.necel.com/micro/ods/jpn/ (μSAB13DF703107; Japanese version)

(2) SP850

• Free upgrade (without supply medium)

Download the upgraded software (DF703107) through ODS (online delivery service). When using this method, the supply medium will not be delivered but the upgrade is free of charge.

Note   Access the following URL.

http://www.necel.com/micro/ods/eng/ (μSBB17SP850; Windows English version)

http://www.necel.com/micro/ods/jpn/ (μSAB17SP850; Windows Japanese version)

4. Upgrade start date

• Free upgrade (Windows version, without supply medium)

The upgraded product can be downloaded through ODS from July 20, 2004.