Microcomputer Technical Information

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		Document No.	ZBG-CD-04-0092	1/3
DF789088 Device File for 78K0S Series Upgrade		Date issued	November 25, 2004	
		Issued by	Development Tool Group Multipurpose Microcomputer Systems Division 4th Systems Operations Unit NEC Electronics Corporation	
Related documents	78K0S Series Device File DF789088 (V1.01) User's Manual: ZUD-CD-04-0084	Document classification	Usage restriction	
			√ Upgrade	
			Document modification	
			Other notification	

1. Product types and version

Product	Outline	Old Version	New Version
μSxx13DF789088	Device file for 78K0S Series DF789088	V1.00	V1.01
Product	Outline	Target Version	
μSxx17SP78K0S	78K0S Series software package SP78K0S	V2.00	
Product	Outline	Target Version	
μSxx17SM78K0S	78K0S Series system simulator SM78K0S	V2.52/V2.30	

Note xx indicates AB or BB.

2. Details of upgrade

The major revisions in DF789088 V1.01 are shown below. For details, refer to "78K0S Series Device File DF789088 (V1.01) User's Manual (ZUD-CD-04-0084)" supplied with the product.

(1) Correction of errors found in V1.00

<1> Deletion of overlapped descriptions of internal RAM in the following MI sections (memory information)
- 0000FA00 0000FAFF 0001 03; Internal RAM   [Target device: μPD789088]
- 0000FA80 0000FAFF 0001 03; Internal RAM   [Target device: μPD789086]
(Low-speed RAM information has erroneously been set to internal RAM information)

<2> Addition of buffer RAM area information to the following MI sections (memory information)
- 0000FA80 0000FAFF 0006 03 [μPD789086]
- 0000FA00 0000FAFF 0006 03 [μPD789088, μPD78F9088]
(Buffer RAM area information that should be set to the low-speed RAM area was missing.)

<3> Correction of access attribute of the following SN sections (SFR information)

- TCL2 [42h] RRRRREEE → -------- [Target devices: All products]

  (TCL2 can be accessed only in 8-bit units, but it was described that it could be accessed in 1-bit units.)

- PCC [FBh] -------- → RRRRRREE [Target device: μPD78F9088]

  (PCC can be accessed in 1-bit or 8-bit units, but it was described that it could be accessed in 1-bit units.)

<4> Change of protect information (SFR information) for the following SN section

- PCC [FBh] [Target device: μPD78F9088]

  (Change in conjunction with correction of bit access attribute in <3>)

(2) Addition of the following database files

     S908X.78K (2004-09-02 17:55:00)

     SF9088.78K (2004-09-02 17:55:00)

3. How to upgrade

(1) μSxx13DF789088

- Free upgrade (without medium)

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

  The download file varies depending on the OS used.

       http://www.necel.com/micro/ods/eng/   (μSBB13DF789088; English version)

       http://www.necel.com/micro/ods/jpn/   (μSAB13DF789088; Japanese version)

(2) SP78K0S

- Free upgrade (without medium)

  Download the upgraded software (DF789088) through Development Tools Download (ODS). When using this method, the medium will not be delivered but the upgrade is free of charge.

  The download file varies depending on the OS used.

       http://www.necel.com/micro/ods/eng/ (μSBB17SP78K0S; English version)

       http://www.necel.com/micro/ods/jpn/ (μSAB17SP78K0S; Japanese version)

(3) SM78K0S

- Free upgrade (without medium)

  Download the upgraded software (DF789088) through Development Tools Download (ODS). When using this method, the medium will not be delivered but the upgrade is free of charge.

  The download file varies depending on the OS used.

       http://www.necel.com/micro/ods/eng/ (μSBB17SM78K0S; English version)

       http://www.necel.com/micro/ods/jpn/ (μSAB17SM78K0S; Japanese version)

4. Upgrade start date

- Free upgrade (Windows version, without medium)

    The upgraded product can be downloaded through ODS from November 29, 2004.