

CUSTOMER NOTIFICATION

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DF780354 V1.00 Device File for 78K0 Series

User's Manual

[Supported Machines/OSs]

PC-9800 Series (Windows™) based

IBM PC/AT™ Compatibles (Windows™) based

HP9000™ Series 700 (HP-UX™) based

SPARCstation™ (SunOS™/Solaris™) based

Be sure to read this document before using the product.

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1. OVERVIEW

The DF780354 is a collection of device files that include the μ PD780344, 780354, 780344Y, 780354Y Subseries-specific information and programs required for developing application programs for this subseries using NEC Electronics development tools.

2. DEVICE FILE TYPES AND VERSIONS

The types and versions of the device files included in this product are shown in Table 2-1 below.

Table 2-1. Device File Types and Versions

Type	File Name	Version
Common devices files	D0343.78K	V1.00
	D0344.78K	V1.00
	D0353.78K	V1.00
	D0354.78K	V1.00
	DF0354.78K	V1.00
	D0343Y.78K	V1.00
	D0344Y.78K	V1.00
	D0353Y.78K	V1.00
	D0354Y.78K	V1.00
	DF0354Y.78K	V1.00
FPGA data file	G0354.78K	V2.10
Database files	S034X.78K	V1.00
	S035X.78K	V1.00
	S034XY.78K	V1.00
	S035XY.78K	V1.00

Common devices files

These files are used commonly by development tools (assembler, compiler, integrated debugger, system simulator, etc.).

FPGA file

This file is required when using the integrated debugger ID78K0.

Database files

This file is required when using the system simulator.

Installation of database files can be selected when installing the DF780354.

3. HOST MACHINE AND SUPPLY MEDIUM

The supply medium and recording format differ depending on the host machine used, as shown in Table 3-1 below.

Table 3-1. Supply Medium and Recording Format

Host Machine	OS	Supply Medium	Recording Format
PC-9800 series IBM PC/AT and compatibles	Windows 95/98/2000/NT4.0	3.5" 2HD FD	MS-DOS
HP9000 series 700	HP-UX (Rel 10.10 or later)	DAT	TAR
SPARCstation Family	SunOS (Rel 4.1.4 or later) Solaris (Rel 2.5.1 or later)	1/4" CGMT 3.5" 2HD FD	TAR

[Caution]

When acquiring a device file by downloading it from the online delivery service (ODS), the downloaded file will have a self-extracting format (EXE format). Execution of this file creates a disk image.

4. TARGET DEVICES AND REQUIRED DEVICE FILES

The device file required for each target device and the device specification are shown in Table 4-1 below.

Table 4-1. Devices and Required Device Files

Target Device	Device Specification Name	Required Device File	FPGA File	Database File
μ PD780343	0343	D0343.78K	G0354.78K	S034X.78K
μ PD780344	0344	D0344.78K		
μ PD780353	0353	D0353.78K		S035X.78K
μ PD780354	0354	D0354.78K		
μ PD78F0354	F0354	DF0354.78K		S034XY.78K
μ PD780343Y	0343Y	D0343y.78K		
μ PD780344Y	0344Y	D0344Y.78K		S035XY.78K
μ PD780353Y	0353Y	D0353Y.78K		
μ PD780354Y	0354Y	D0354Y.78K		
μ PD78F0354Y	F0354Y	DF0354Y.78K		

Device specification

Use as shown below.

- Specify as the option argument of the assembler or C compiler's device type specification option as follows: [-C *device specification*] (e.g. -C0343 in the case of the μ PD780343)
- Specify in the assembler source as follows: [\$PROCESSOR (*device specification*)]
- Specify in the C source as follows: [#pragma pc (*device specification*)]

5. SUPPORTED DEVELOPMENT TOOLS

The development tools supported by the DF780354 are shown in Table 5-1 below.

Table 5-1. Supported Development Tools

Development Tool		Supported Version
Assembler	RA78K0	V3.50 or later
C compiler	CC78K0	V3.30 or later
Integrated debugger	ID78K0-NS	V2.31 or later
	ID78K0	Not supported
System simulator	SM78K0	V2.40 or later

6. INSTALLATION

6.1 Windows-Based Products

Installation is performed using the device file installer.

The device file installer is automatically installed with the installation of an NEC Electronics development tool.

- Notes**
1. The device file installer is not included in development tools older than those listed in Table 5-1. When using an older tool, upgrade and install the latest version of the development tool first.
 2. When acquiring a device file by downloading it from the online delivery service (ODS), the downloaded file will have a self-extracting format (EXE format). Execution of this file creates a disk image. Copy the disk image to the hard disk or FD before installing the device file.

- (1) The device file installer is activated by selecting [Program] → [NEC Tools32] → [Device file installer] from the Start menu.
- (2) Click the **Install...** button to the right of [Device File Package] in the Device File Installer window to open the [Install Wizard: Install information file].
- (3) Specify the install information file and click the **Next >** button.

The installation data file indicates the setting files that are included in the device file product.

Use either of the following the install information files in accordance with the language environment.

Japanese environment: Necsetup.ini

Other than Japanese environment: _csetup.ini

- (4) Continue installing the device file following the directions of the Installation Wizard.

6.2 UNIX-Based Products

- (1) Move the directory to the one in which the DF780354 is to be installed.
- (2) Execute the tar command and read the files from the supply medium.

[Execution example]

Reading the DF780354 from tape device/dev/rct/c0 and installing it in /necools/dev

<pre>\$ cd /necools/dev</pre>	Change the current directory to the installation destination directory
<pre>\$ tar -xvf /dev/rct/c0</pre>	Copy the files from the installation origin

7. REVISION HISTORY

The device file revision history is shown in Table 7-1 below.

Table 7-1. Revision History

Version	Description
V1.00	First edition