

CUSTOMER NOTIFICATION

SUD-DT-03-0219-E

May 20, 2003

Koji Nishibayashi, Senior System Integrator  
Microcomputer Group  
2nd Solutions Division  
Solutions Operations Unit  
NEC Electronics Corporation

CP(K), O

# DF780862 V1.00 Device File for 78K0 Series

## User's Manual

[Supported Machines/OSs]

PC-9800 Series (Windows™) based

IBM PC/AT™ Compatibles (Windows™) based

Be sure to read this document before using the product.

## CONTENTS

1. OVERVIEW .....	3
2. DEVICE FILE TYPES AND VERSIONS .....	3
3. HOST MACHINE AND SUPPLY MEDIUM .....	4
4. TARGET DEVICES AND REQUIRED DEVICE FILES .....	4
5. SUPPORTED DEVELOPMENT TOOLS .....	5
6. INSTALLATION.....	5
7. REVISION HISTORY .....	6

## 1. OVERVIEW

The DF780862 is a collection of device files that include the  $\mu$ PD780862 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	D0861.78K	V1.00
	D0862.78K	V1.00
	DF0862.78K	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 in some devices.  
This file is not included in this device file.

### Database files

This file is required when using the system simulator.  
Installation of database files can be selected when installing the DF780862.  
This file does not support the system simulator.

### 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 98/2000/NT4.0/XP	3.5" 2HD FD	MS-DOS

#### [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
$\mu$ PD780861	0861	D0861.78K	None	Not supported
$\mu$ PD780862	0862	D0862.78K		
$\mu$ PD78F0862	F0862	DF0862.78K		

#### 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. -C0861 in the case of the  $\mu$ PD780861)
- 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 DF780862 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	Not supported

## 6. INSTALLATION

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  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  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.

## 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