

Document title:	DriveWare and PCMCIA Card on Windows NT 4.0
Date :	98-05-08
Revision :	
Pages :	

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### DriveWare and PC Card (PCMCIA) on Windows NT 4.0

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#### 1. Introduction

NDPA-02 Adapter (PCMCIA card Type II) is an interface card that must be installed to PC's type II Single Slot.

Existing PCMCIA cards and connection cables that can be used with Windows NT 4.0 and DriveWare are described in the following table.

Card type	Card code/version	Connection cable type	Connection cable code/version	Remarks
NDPA-01	10024609 A or C or D	NDPC-01	10024617 C	Not in product
NDPA-02	61319026 B	NDPC-02	61319387 B	5 MBd connection
NDPA-02	61319026 B	NDPC-12	61316795 B	10 MBd connection

Parts on the same row always belong together. \* = Used type depends on the target (AMC board) connector type.

Note: on Windows NT 4.0, always plug the PCMCIA card in before turning power to your PC. If you plug it in later, you have to reboot your PC.

#### 2. Additional Installation Disk for NT4 Setup

Unlike Windows 95, **NO** additional disk is needed on Windows NT 4.0. You only have to install DriveWindow or DriveDebug.

#### 3. Use of Commercial PCMCIA Card Identification Softwares on Windows NT 4.0

**Never** use any commercial software to handle DriveWindow PCMCIA card on your Windows NT 4.0. If you have already installed it, please disable or uninstall it.

##### 3.1. Typical end result of the settings

By using ControlPanel and PC Card -icon the setup can be viewed. Here a typical setup result:

Socket status: ABB Industry Oy DDCCS+-  
CardInfo:

Device Type : (UNKNOWN)  
Manufactures: ABB Industry  
Device Map: Not Available  
DeviceStatus: The device is working properly  
Driver:  
DriverName: Ddcc+  
DriverFile: Ddcc+.sys  
Driver Status: The driver for this device is not installed.  
Resources : Interrupt request 7  
Input/output 320-330  
Controller: Cirrus Logic  
Resource type: Input/output range 3E0-3E1  
Memory range: D0000-D3FFF

#### 4. Setting the I/O Base Address

On Windows NT 4.0, there may be a conflict between **multiple** PCMCIA cards. You notice the conflict, when you boot your Windows NT 4.0 and the start-up procedure freezes at the "blue screen" phase. This indicates that there is a conflict between the cards.

The default I/O Base Address for DriveWindow PCMCIA card is 320H. Normally the user does not need to take any actions regarding this setting. It may, however, be the case that the same I/O Base Address is already taken over by some other PCMCIA card. Unlike Windows 95, Windows NT 4.0 does not know how to solve this problem automatically.

You can fix the problem manually as follows:

- a) First check a free I/O Base Address with the NISADUMP program (you find it later on this page).
  - b) Then change the current I/O Base Address with the NISAREG program (you find it later on this page).
- Read further to know how to use the programs in detail.

##### 4.1 The Use of NISADUMP Program

NISADUMP.EXE program can check the reserved and free I/O Base Addresses on Windows NT 4.0.

First - after installing DriveWindow and coming up with a conflict - copy the attached NISADUM.EXE to a location on your hard disk.



Then run it on your Window NT 4.0 DOS prompt by typing its name. The results may be as follows (FF = free address):

```

Command Prompt
C:\NT4CHECK\changeddcccpcmcia>nisadump

                NisaDump      I/O Area

Version 1.00 Mar 18 1998
Copyright (c) ABB Industry Oy, Helsinki 1993-1998

I/O port 280= 8 FF 30 F 0 0 0 0 0 0 0 0 0 0 0
I/O port 290= 8 FF 30 F 0 0 0 0 0 0 0 0 0 0 0
I/O port 2A0= FF FF
I/O port 2B0= FF FF
I/O port 2C0= FF FF
I/O port 2D0= FF FF
I/O port 2E0= FF FF
I/O port 2F0= FF FF
I/O port 300= FF FF
I/O port 310= FF FF
I/O port 320= FF FF
I/O port 330= FF FF
I/O port 340= FF FF
C:\NT4CHECK\changeddcccpcmcia>

```

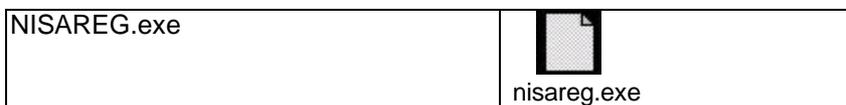
The same information is automatically saved to a DISADUMP.TXT file.

#### 4.2 The Use of NISAREG Program

Note: **THE USER MUST BE AN ADMINISTRATOR ON HIS WINDOWS NT 4.0 IN ORDER TO RUN NISAREG.**

You can, after installation of DriveWindow , change the I/O Base Address of its PCMCIA card with NISAREG in case you have a conflict. The allowed addresses are between 300H ... 340H.

First copy the attached NISAREG.EXE on your hard disk.



Then run it as shown in the picture below (300 is in this case given as the new I/O Base Address):

```

Command Prompt
E:\ABBTOOLS\DRIWIN>nisareg 300

                N I S A R E G

Version 1.00 Mar 18 1998
Copyright (c) ABB Industry Oy, Helsinki 1993-1998

IoBaseAddress 320h is changed to 300h
E:\ABBTOOLS\DRIWIN>

```

Finally, you have to reboot your PC in order to have the change in effect (no plug & play on Windows NT 4.0!).