

## Pwr Mac DOS Compatibility Card: Using Chameleon/NFS (6/95)

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Pwr Mac DOS	compatibility Card: Using Chameleon/NFS (6/95)	
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TOPIC		
	provides information on using NetManage's Chameleon/NFS with the lity Card for the Power Macintosh.	
DISCUSSION -		
Introduction		
focus on asp DOS/Windows	assumes a working knowledge of DOS and Windows. This document weets of network software installation that deviates from normal installations. This document is not a substitute for and should be written with product decumentation.	

used in conjunction with product documentation!

Simultaneous Macintosh and DOS networking \_\_\_\_\_

Your Power Macintosh 6100 DOS Compatible can have simultaneously active connections in both environments, provided different networking prtocols are used. You cannot have two identical protocols running in both environments. If identical protocol support in both environments is needed, the only solution at this time is to encapsulate one protocol inside a different protocol, referred to as "tunneling". For example, there are various options to have TCP/IP active on both the Macintosh and the DOS side; They all require some form of gateway to either route IP encapsulated in AppleTalk, or IP encapsulated in IPX. One solution is to set MacTCP for EtherTalk and put an Apple IP Gateway on the network.

DOS networking and Memory  If you will be using the Power Macintosh 6100 DOS Compatible networking functions, it is recommended that you maximize conventional memory by removing unecessary device drivers and TSRs. Also, load the remaining device drivers and TSRs high if possible. Windows for Workgroups 3.11 requires greater than 540K of conventional memory for it's Browser to function properly.

Windows for Workgroups: Installation considerations

If you will be installing Windows for Workgroups 3.11, the Novell Netware client, AND TCP/IP support, install the NetWare client first, Windows for Workgroups 3.11 second, and the IP stack third.

ODI to NDIS translation issues

Novell provides an ODI to NDIS translator called "ODINSUP.COM", which is copied to the same directory as the client software. This allows ODI drivers to be used in an NDIS environment. When using ODINSUP.COM, you must specify an interrupt in the NET.CFG file. Use the statement:

INT 6

in the Link Driver section of the NET.CFG file. Failure to do this results in the following error message:

"ERROR: "First Mac ODI MLID does not conform to the latest ODI MLID specification. Call adapter manufacturer and request a newer MLID that preserves the PIC mask bit."

For a complete discussion of ODINSUP.COM and configuration information for it, please contact Novell.

Windows for Workgroups 3.11

If Windows for Workgroups 3.11 is to be installed, it is recommended that you become familiar with the protocol.ini file, which Windows for Workgroups 3.11 uses for setting up the networking environment. Without the proper entries in this file, Windows for Workgroups 3.11 networking will not function properly. The installer for Windows for Workgroups 3.11 does NOT modify the PROTOCOL.INI or NET.CFG file correctly, which means they must be manually edited. A suggested resource is the Windows for Workgroups 3.1 Resource Kit, available from Microsoft.

MACODI

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MACODI.COM is located on the DOS Compatibility Card Installer Disk for DOS Environment.

It is important to note that the Power Macintosh 6100 DOS Compatible does not require any special settings where networking is concerned. The DOS side functions as would any DOS machine using ODI drivers. The only special consideration is to be sure the same protocols are not running in both environments unless tunneling is used.

Binding TCP/IP protocols in NET.CFG

For any TCP/IP setup, you MUST bind IP and ARP in the NET.CFG file. The only notable exception to this that we know of is FTP Software's PC/TCP. If the IP protocol stack you use requires RARP, you MUST bind this also. The entries that bind IP, ARP, and RARP will ALWAYS be the same, unless you are binding to a frame type other than Ethernet\_II, which is unlikely. This is the standard IP, ARP, and RARP listing that MUST be in the NET.CFG file for IP support:

Link Driver MACODI
Frame Ethernet\_II
Protocol IP 800 Ethernet\_II
Protocol ARP 806 Ethernet\_II
Protocol RARP 8035 Ethernet\_II

As a general rule, do not add PORT or INT statements to the NET.CFG file. ODI drivers do not necessarily require them, and MACODI does not use interrupts. If using odinsup.com for NDIS compatibility, set the INT value to 10.

Example Installation and Settings Files

The following are some examples of networking configurations on the Power Macintosh 6100 DOS Compatible. Note that for all of these installations, Novell Netware was loaded. Also note that defaults were selected in all of these scenarios, which may not be valid for your environment. These are included as examples only. In some situations, the installer may not respond as outlined due to differences in files loaded into memory at the time of the installation. If that occurs, proceed per the software's documentation for using the software with ODI drivers. For the sake of brevity, only portions of files specific to the discussion will be listed. For further help in setting up the various networking environments, please contact the vendor of your network operating system.

NetManage's Chameleon/NFS installation

You must have successfully installed the NetWare client software and Windows before performing this step. "Successfully" means LSL.COM and MACODI.COM are loading without errors. Make sure you don't have networking software loaded on

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the Macintosh that would cause a conflict, such as MacTCP. Windows comes preinstalled on the Power Macintosh 6100 DOS Compatible. Follow these steps to load Chameleon/NFS. Again, only the steps that deviate from standard installations will be thoroughly outlined. Windows for Workgroups 3.11 was installed for this configuration.

#### Step 1

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Before beginning the installation, you will need to have the following information:

IP ADDRESS:

SUB-NET MASK:

DEFAULT ROUTER IP ADDRESS:

DOMAIN NAME:

DOMAIN NAME SERVER IP ADDRESS: (If DNS services will be used)

Step 2

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Follow the directions in the NetManage manual for running the Chameleon/NFS installer, and follow the prompts. Enter the information as it is asked.

### Step 3

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After adding the information requested, you should go under the "Services" menu and add any other information required for your environment such as router address, DNS address, etc. When done, save the configuration, quit, and restart.

NetManage adds the following to the AUTOEXEC.BAT file:

C:\NETMANAG\NMODI

The directory listed will match whatever you told NetManage to install into.

NetManage changes the NET.CFG file, which looks like this after the Chameleon/NFS install:

NET.CFG

\_\_\_\_\_\_

Link Driver MACODI

FRAME Ethernet\_802.2
FRAME ETHERNET\_II

PROTOCOL IP 800 ETHERNET\_II
PROTOCOL ARP 806 ETHERNET\_II
PROTOCOL RARP 8035 ETHERNET\_II

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For further help with installing NetManage's Chameleon/NFS, please call NetManage.

Article Change History: 29 Jun 1995 - Corrected spelling. 19 Apr 1995 - Corrected INT setting.

Support Information Services

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