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FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the Instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Marking Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Revision

PLANET Ethernet Adapter - ENW-8300 User's Guide

Rev: 4.0

Part No. EM8300V4

About This Guide

Thank you for purchasing PLANET ENW-8300, high performance PCI Ethernet Adapter. This guide is to provide the installation and usage of the card for network installers or users. ENW-8300 complies with the latest PCI bus specifications and comes jumperless to simplify installation. Extensive driver supports for commonly used network operating systems including NetWare, Windows 95/98, Windows NT, and TCP/IP are available. The following summarizes the contents of the chapters and appendix.

Section	Contents
Chapter 1	Gives an overview of the hardware characteristics and benefits
Chapter 2	Describes the physical installation of the ENW-8300 adapter, specifying adapter settings, software setting, and installing a network driver.
Appendix A	Troubleshooting
Appendix B	Product Specification

1. INTRODUCTION

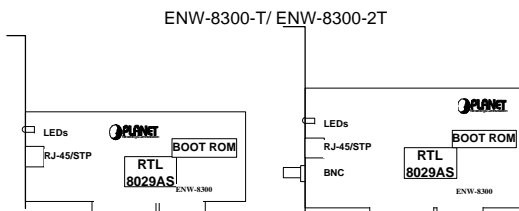
Hardware Overview

ENW-8300 is a 32-bit Peripheral Component Interconnect (PCI) local bus Ethernet card that offers user the best price/performance on the market. ENW-8300 has passed the Hardware Compatibility Test provided by PCI Special Interest Group.

This card also supports full-duplex function which enable simultaneous transmission and receiving through the twisted-pair link to full-duplex Ethernet switches. This feature not only increases the channel bandwidth from 10Mbps to 20Mbps but also avoids the performances degrading problem due to the characteristic of the Ethernet CSMA/CD protocol.

Features & Benefits

- PCI local bus single-chip Ethernet controller.
- Comply with IEEE 802.3 10Base-2, and 10Base-T.
- Complies to PCI local bus specification.
- Supports full-duplex Ethernet function to double channel bandwidth.
- Built-in data pre-fetch function to improve performance.
- Provide auto-detection capability between UTP and BNC.
- Support auto polarity correction for 10Base-T.
- BOOT ROM function for remote boot up.
- Built-in 32K byte SRAM data buffer to speed up data transmission.



2. INSTALLATION

General Installation

1. Turn off the computer and remove its cover.
2. Insert the card into one of the free PCI slots and secure the adapter with screw firmly. Put back the cover of the computer
3. Connect to the network using thin, 10Base-2 or twisted-pair cable, 10Base-T
4. Power on the PC and install the driver

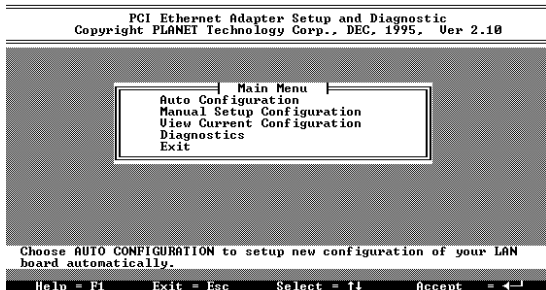
Configuration / Diagnostic

Basically, ENW-8300 is completely self-configurable, requiring no intervention from the user. There are only 3 items that can be configured: Medium type, Full/Half duplex, and Boot ROM enabled. You can also run diagnostic of the card from the **setup.exe** program provided within the driver diskette.

Insert the floppy diskette provided with ENW-8300, in pure DOS prompt, execute **setup.exe** command and you'll see the following:

- . Auto configuration
- . Manual Setup Configuration
- . View current Configuraiton
- . Diagnostic
- . Exit

Please follow the easy menu-driven program to configure the cards.



Driver Installation

For detailed information, please refer to the document in the diskette provided with the product or refer to the file **Readme.exe**.

Driver install examples:

1. For Netware client, please execute the following:

```
lsl  
pciodi  
ipxodi  
netx (or vlm)  
f:  
login    username
```

2. For Netware server, please execute the following:

```
load pcisrv  
bind ipx pcisrv  
load monitor
```

BOOT ROM Installation (Optional)

The product provides a socket for a remote boot ROM. With a boot ROM, a host computer can load the operating systems over the network.

1. Plug in the boot ROM to the appropriate position, make sure the direction is correct.
2. Enable the boot ROM function. Please see **Setup.exe** program and **Readme.exe** for detail.

APPENDIX A TROUBLESHOOTING

Most common factors that cause an adapter to fail are configuration conflicts and cabling problems. PCI cards shouldn't have any conflict problem due the plug and play specification. One should check the cable and its terminator. Use also the adapter LED indicators and Diagnostic Program. For information on the Diagnostic Program, please see Setup program. If the problem persists, call your dealer for help.

LED Indicators

The two LED indicators help you monitor the network status. Their functions depend on the type of cable used.

- ◆ **Link** monitors the data link status on the **UTP** cable. It turns ON when there is data link, and OFF when there is bad / no connection.
- ◆ **Activity** blinks when there is data transmission / reception.

APPENDIX B PRODUCT SPECIFICATION

Standard	: IEEE 802.3 10Base-2/T
Transmission rate	: 10 /20Mbps
Hardware	: PCI bus Spec. Ver 2.0
LED	: 2; LNK, ACT
IRQ	: Assigned by PCI BIOS
I/O Address	: Assigned by PCI BIOS
Boot ROM Address	: Assigned by PCI BIOS
Driver Support	: Novell NetWare3.x ,4.x Windows NT3.1, NT3.5, NT3.51, NT4.0 Windows for workgroups 3.x, Windows 95/98 TCP/IP, Lantastic 4.x, 5.x, 6.x, and SCO UNIX.
Temperature	: 0 to 50 degree C(operating)
Power	: 0.5 Watts
Emission	: FCC class A; CE