EUT:10M LAN CARD

FCC ID:L4OWS-R320CT

CIS TECHNOLOGY INC.

Uscr's manual

Section 1 Introduction

Your PCI-based adapter is a high performance Ethernet adapter that is IEEE 802.3 compatible. The Ethernet adapter is based upon Industry Standard PCI Local Bus Specification 2.0, that features Plug-and-Play (PnP) function, making it fully auto-configurable.

The Ethernet adapter offers the network medium selection of 10BASE-T (RJ-45), or 10BASE-2 (BNC) connection. It also includes 16K buffer RAM for faster network transmission and reception, and one LED for houbleshooting.

The Ethernet adapter includes a complete set of thrivers for all popular Network Operating Systems. It is also compatible with NetWare DOSODI NE2000 driver supplied by your Network Operating Systems. Especially, the Ethernet adapter is Microsoft Windows 95 compatible. The optional BOOT ROM device allows the diskless workstation to be connected to the network.

Section 2 Installation

This section describes how to install your Ethernel adapter. Perform the following steps to install the adapter.

1 Thin off your communer and all periods are

- Turn off your computer and all peripherals.
 Make a note of the cables and cords that are con-
- nected to the computer and disconnect them.

 Remove your personal computer's cover (refer to
- the owner's manual of your personal computer).

 4. Select any available PCI slot, and remove the slot cover.
- 5. Carefully install the Ethernet adapter into the expansion slot by firmly pressing the card into the edge of the connector slot until the adapter is snugly scated in the expansion slot and fasten the retaining bracket with screw from the slot cover.
- Reinstall your personal computer's cover and reconnect the power cord and all cables.
- Connect the Ethernet cable to your personal computer.

Note:

System Requirements:
A PC and BIOS that support the PCI Local Bus Specification 2.x.

thernet Card for PC

Section 5 BOOT ROM Installation

lowing steps to install your BOOT ROM device. a diskless work station to the network. Perform the ful-The optional BOOT ROM device allows you to connect

Execute the EZPCI file to enable the BOOT ROM Insert the BOOT ROM into the socket on the adapter. function by selecting the appropriate BOOT ROM

3. Refer to the installation procedure provided by your Networking Operating System. Here lists the reference subjects under three commonly used Network-

Microsoft LAN MANAGER: Novell Netware: DOSGEN

ing Operating Systems.

3COM 3+ LAN MANAGER: Starting remote Creating a start-up booting service

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Section 6 Cable Specifications

The Ethernet adapter has there connector alternatives. describes each cable's specification. Each connector requires a different cable. This section

Cable for RJ-45 connector for 10BASE-T network

CableType:

22,24 or 26 AWG UTP with 2 twisted pairs of

Maximum cable length: Nominal impedance: Twists per foot: 2 to 3(unin.)

100 of arres

Maximum Attenuation: 8 to 10 dB per 100m at 10Mz 300(100m)

Cable for thin coaxial BNC connector for 10BASE2

Minimum distance:

Cable type:

Detwork

RG-SBANUar RG-58C/U

Maximum nodes per segment. Maximum segment length:

8 2. 2.

0.5m(between two-nodes)

Note: The coaxial cable must be terminated by a 50-ohm terminator at both ends.

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Section 7 Troubleshooting

This section describes reasons for some adapter's failures and the actions to be taken to resolve the problems.

PCI scan specified, device not found
 Action: Verify that the PCI Ethernet adapter is
 physically installed properly. Otherwise,
 replace the adapter.
 Connection failure if using an unshielded twisted pair

(UTP) cable

Action: Verify that the UTP cable is firmly attached

Connection failure if using coaxial cable
 Action: Verify that the coaxial cable is properly terminated.

Section 8 Specifications

Ethernet Card for PCI

IEEE 802.3 Standard: 10BASE-T, and 10BASE2
Wiring Connector: RJ-45, and BNC
Bus Characteristics: 32 bits; PCI Local Bus Specification

2x

WO address: being assigned by the BIOS to a free

WO address block

ROJine: INTA; being assigned by the BIOS

IRQ line: INIA; being assigned of more Rolline: to a first IRQ (interrupt) number IRQ Directions: 4.72**2.36*

RCC Compliance: FCC Class B

Power Consumption: 430nA/@5V
Operating Temperature: 0 to 55 degrees contigrate
Operating Humidity: 10 to 90%, non-condensing

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Section 3 Configuration and Diagnostics

Your Ethernet adapter is automatically configured when you power-up your computer, in certain computers, however, you must modify your BIOS by entering your CNAOS SETUP utility.

To view the configuration parameters assigned by the BIOS, insert the software diskette into your drive and execute the utility software, EZPCI.

Before you install the drivers and connect the adapter to the network, make sure to run the diagnostics to assure the proper function of the adapter. The diagnostics includes two groups of test:

Card invialization and test

This test is a series of tests designed to check Network Controller Registers, on-board RAM, Internal Loopback and Interrupt Generation.

2. Advanced Network test

This test verifies that the network cable is connected, so that the adapter can transmit and receive data.

The test requires two computers. One computer, configured as the Master, generates and sends test messages. The other computer, configured as the Slave, receives messages and transmits them back to the Master. Results can be viewed on both the Master and Slave computers. A screen menu provides you with the instructions to conduct this test.

Note: Run the Card Initialization and Test before running the Advance Network Test to ensure that adapter's basic functions are working properly.

Section (Drivers Installation

Before you connect your adapter to the network, you have to install the driver first. The Ethernet adapter is fully IUEE 802.3 compatible and can use the NetWare DOSODI NE2000 compatible driver that is included in your Networking Operating System. You can also use the drivers supplied by the software diskette that is compatible with your Networking Operating System. The driver for each Networking Operating System is under a separate directory. Each directory includes a README TXT fileto describe the detailed installation procedure. A RELEASE TXT file under root directory lists the information of all the available drivers.

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FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient o relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help

Shielded interface cables (except TP Data cable) must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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