User's Manual

Jumper&Jumperless NE2000 Compatible Ethernet Adapter

Thank you for purchasing our Jumper&
Jumperless NE2000 compatible Ethernet
Adapter (The Product). This guide is to
provide the basic information and usage of
The Product for network installers or users .

This installation guide is divided into three
chapters and one appendix. The following
summarizes the contents of the chapters and
appendix.

Chapter 1 Introduction

The Product is a 16-bit Novell NE2000
compatible Ethernet adapter designed for
users connecting IBM PCs and compatibles
to an Ethernet network.

Conforms to the IEEE 802.3 Ethernet
standards, three models are available:

- 2-in-1 Jumper & Jumperless NE2000
  Compatible adapter
- 10BASE-T Jumper & Jumperless
  NE2000 Compatible adapter
- 10BASE-2 Jumper & Jumperless
  NE2000 Compatible adapter

The Product allows users to configure the
hardware by using either jumper or software.
The auto-setup feature makes the card to be
truly "plug & play". 8 interrupts and 8 I/O
addresses are supported to increase the
flexibility of the hardware installation. It is
also equipped with 16 KB SRAM on-board
data buffer, socket for optional 8 KB remote
boot ROM. In addition, it provides driver
supports for Novell NetWare, Microsoft
LAN Manager, and TCP/IP. Diagnostic
software is also provided for detecting
hardware configuration /failure.

Features & Benefits

- Fully Novell NE2000 compatible
- Up to 35% performance improvement
- Configuration by jumpers or by software
- Auto-setup hardware configuration through software program
- Auto-detect media type
- Auto-detect for 8-bit or 16-bit bus interface
- Uses Surface Mount Technology
- Complies with IEEE 802.3 CSMA/CD standard
- 10 Mbps transmission rate
- Uses VLSI single chip technology
- Supports 8 interrupts, and 8 I/O Addresses
- Optional 8 KB remote boot ROM
- Provides Diagnostic software for detecting hardware configuration / failure
- Provides IPX & ODI drivers for NetWare, NDIS driver for LAN Manager and Windows for Workgroups, and Packet driver for TCP/IP
- Optional expansion of AUI connector

Chapter 2   Hardware Setup

Adapter Installation

1. Turn off the power of your computer and unplug its AC power cord.
2. Open or remove the cover of your computer's chassis.
3. Insert adapter in an I/O expansion slot.
4. Secure the adapter in the slot by tightening the screw on metal mount to the back of the computer's chassis.
5. Close or replace the cover of your computer's chassis.
6. Connect the adapter to the network using thin, thick, or twisted-pair cabling, depending on the adapter type.

Adapter Configuration

The Product provides both software configuration (**Jumperless Mode**), and the jumper settings (**Jumper Mode**). The default is set at **Jumperless** Mode. (**IRQ=3, I/O Address: 300H**)

Jumper Description

| Jumper	Description
IRQ (JP1)	Selects Jumper Mode and IRQ channels
I/O Address (JP2)	Selects I/O Address
JPLESS	Selects Jumperless Mode

Jumperless Mode Configuration

You can configure the hardware by using the software (**Jumperless mode**). First you must make sure the jumper is set at **JPLESS** (Default setting)

15	12	11	10	5	4	3	2	JPLESS
IRQ(JUMPER)								
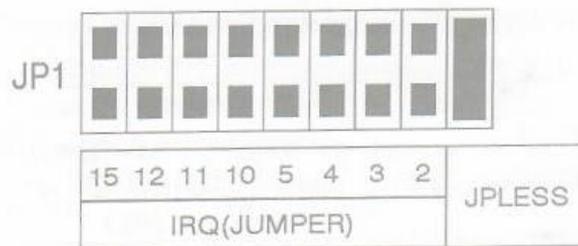
Then you can run **SETUP** program to setup the hardware configuration . In the DOS prompt, type

A:> SETUP <Enter>
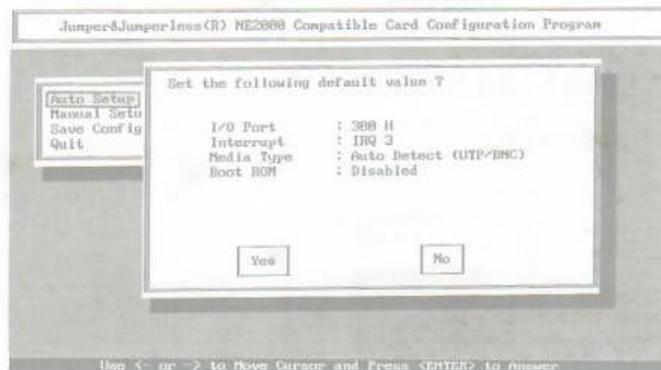
On the screen, the following screen will appear, the setup program is started.
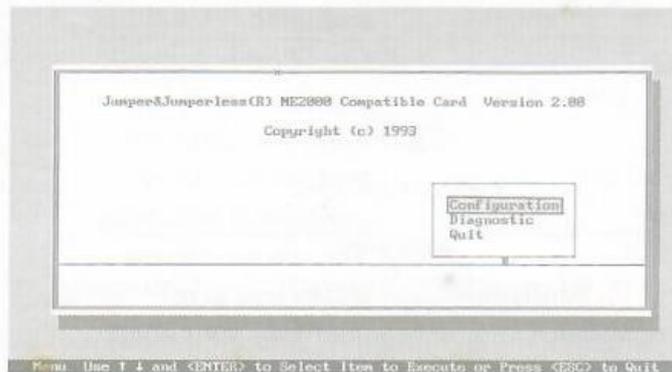
To configure the hardware, select **Configuration** and press <Enter> and you may begin the program.

Auto Setup

The adapter provides auto-configuration . In this selection, the program will automatically detect the available IRQ and I/O, and avoid the potential conflicts in the systems.

Manual Setup

This program is to set up the adapter configuration with the selection of your choices. The '*' mark shown in the menu means that a potential conflict, and you can not use that address.

Save Configuration

After you have finished the setup program, you must select **Save Configuration** to complete your selection.
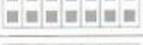
Jumper Mode Configuration

If users are to use jumper setting, they are required to move the jumper from **JPLESS** to any interrupt selection. i.e. IRQ (Jumper)

IRQ Setting

IRQ Line	JP1(IRQ)	
IRQ2		
IRQ3		Default
IRQ4		
IRQ5		
IRQ10		
IRQ11		
IRQ12		
IRQ15		

I/O Address Setting

I/O Address	JP2(I/O)	
200		
220		
240		
260		
300		Default
320		
340		
360		
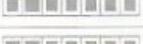
Boot ROM Usage

BOOT ROM Usage	JP2(EN)	
Disable	▪▪▪▪▪▪ / ▪▪▪▪▪▪	Default
Enable	▪▪▪▪▪▪ / ▪▪▪▪▪▪	

Boot ROM Address

BOOT ROM Address	JP2(MEM)	
C0000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
C4000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
C8000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	Default
CC000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
D0000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
D4000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
D8000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	
DC000H	▪▪▪▪▪▪ / ▪▪▪▪▪▪	

Adapter Diagnostic

In the main menu screen of the sepup program , you could move cursor to the Diagnostic, and press Enter to execute adapter diagnostic program.

You have the following selections:

Hardware Configuration	To show hardware configuration such as adapter ID, I/O address, and IRQ
Ethernet Card Test	To test the card's function such as NIC test, RAM test, remote DMA test, loop back test and interrupt test
Transmit / Receive Test	When The Product transmit or receive a packet in the network, the transmit or receive counter will be increased
Cable Test	Check cable status. If you disconnect the cable, the diagnostic program will show cable Fault on screen
Reconfigur-ation	The setup program allows you to re-configure your adapter if you need to.

Chapter 3   Driver Installation

Your adapter comes with driver programs that allow it to be used with most popular networking software. These programs files are on the diskette that accompanies the adapter.

Instruction on how to use these programs are given on the diskette (driver.doc). You may use the DOS command TYPE or PRINT to print out these instructions.

Install Driver Programs

Before you begin to install the driver programs:

- Make sure The Product is configured properly either by software or by jumper setting.

- Check also that all network cables are well connected, and that you use the right cable.

Then, begin installing the desired driver programs according to the instruction on the adapter's diskette and/or in your networking software manual.

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