

Quick Installation Guide

P/N: 7743902101 Rev. A1

Note: Read this Quick Installation Guide before you install.

PACKAGE CONTENTS

- 10/100Base-TX PCI Bus Ethernet Adapter
- Driver and diagnostic diskette (3 1/2")
- This Quick Installation Guide
- 3-pin Wake-On-LAN wire

HARDWARE DESCRIPTION

The 10/100Base-TX PCI Bus Ethernet Adapter has one RJ-45 connector and four indicators. The RJ-45 connector supports both 10Base-T and 100Base-TX operations. External LEDs make it easy to monitor data transmitting, link status, full duplex and network speed to assist in troubleshooting.

LED Function	Color	Description
ACT	Green	Blinking: Data Transmitting or Receiving
LINK	Green	Lit: Indicates that the link pulse is established
100	Green	Lit: Indicates the network is connected to 100Mbps port
FDX	Green	Lit: Indicates the network is connect in Full duplex mode

HARDWARE INSTALLATION

Quick Installation Guide

1. Make sure the computer is turned off.
2. If you are using the WOL feature of the card, please refer first to the WOL section of this Instruction Guide.
3. Put the Adapter into the Bus Master PCI slot of computer.
4. Select the UTP cabling to connect the Adapter to network
- The 100Base-TX maximum length is 100 meter
5. Power on the computer, change your computer's BIOS setup to enable the Bus master mode if necessary.
6. Test the adapter (Run DIAG100 diagnostic program)
7. Install the network drivers

Make sure you have the correct wiring

To reliably operate your network at 100Mbps, you can use Unshielded Twisted-Pair (UTP) Category 5 Data Grade wire.

SOFTWARE INSTALLATION

For Windows NT

1. Boot your computer from Windows NT.

2. Install the driver from the Control Panel
3. Insert the driver disk into drive A. Type the driver path into the box on your screen and press Enter key.
4. Select the "PNIC-100 Fast Ethernet Adapter".
5. Click Next, then install the network protocols and services that you want. Refer to your Microsoft Windows NT user guide(s) for more information.
6. NT will copy the necessary network driver to your computer. Upon completion, you will see a list of installed bindings. You can change the bindings settings if necessary.

For Windows 95/98

1. Insert the driver diskette into the floppy drive (for ex: A)
2. Open the "Control Panel", and then click the "Network" icon to install the driver.
3. After the installation of driver is completed. Please reboot the computer to make changes in effect.

For Novell

1. Insert the driver diskette into the floppy drive (i.e. A)
2. At the NetWare prompt, run the INSTALL.NLM program by typing LOAD INSTALL <Enter>
3. Choose the driver to start the driver loading and binding procedure. This will allow you to load and bind the frame types supported by NetWare
4. Add the LOAD and BIND statements required to the server is AUTOEXEC.NCF file so that the driver will be loaded automatically each time the server starts

Diagnose the Adapter

There is a Diagnostic program in the diskette. To run this program, type in the following code at the DOS prompt:

➤ DIAG100

The main menu has the following options:

1. **View**
2. **Diagnose**
3. **Select**
4. **Help**
5. **About**
6. **Exit**

Product Specifications

Standard	IEEE802.3/802.3u 10Base-T/100Base-TX standards
Bus Interface	32-bit bus master
Hardware Interrupts	PCI INTA
Base I/O Address	Assigned by BIOS
Cable Connections	RJ-45 (10Base-T) UTP Category 3 or better. RJ-45(100Base-TX) UTP Category 5 or better
Software Compatibility	Microsoft Windows NT, Windows 95/98, Windows for Workgroups v 3.1x, DOS ODI Client, OS/2 ODI Client, Client 32 for DOS and Windows 95, Novell NetWare, IBM LAN Server, IBM LAN Requestor, SCO UNIX 3.2.4 or higher, SCO OpenSever 5.0 or higher, Diagnostic Program, Packet driver, FTP PC/TCP with packet driver, Artisoft LANtastic v6.0, Banyan VINES for DOS, DEC PATHWORKS, LINUX driver
LED Indications	LINK – Green ACT – Green 100 – Green FDX – Green
Input Power Requirements	5Vdc +/- 5%
Power Consumption	1.5W Operational State 1.3W Idle State
Dimensions	123 x 55 mm
Certification	FCC Class B, CE Mark Class B, VCCI Class B, C-Tick Class B

Copyright Notice

Contents are subject to revision without prior notice. All rights reserved.

Trademarks

All other trademarks belong to their respective owners.

FCC Compliance Statement

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 against harmful interference when the equipment is operated in residential installation. This equipment generated, 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. 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 or 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.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, must be used in order to comply with emission limits.

CE Mark Delaration of Conformance

This is to certify that this product complies with ISO/IEC Guide 22 and EN45014. It conforms to the following specifications:

EMC	EN55022(1988)/CISPR 22(1985)	Class B
	prEN55024-2(1990)/IE801-2(1991)	4KV CD, 8KV AD
	prEN55024-3(1991)/IE801-3(1984)	3V V/m
	PrEN55024-4(1992)/IE801-4(1988)	1KV - (power line) 0.5KV - (signal line)

This product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC.

Wake-On-LAN (WOL) Instruction Guide

Introduction

This LAN Card supports both **Magic Packet** and **Link Change** remote wake-up events.

Magic Packet is a type of WOL event developed by AMD. An administrator basically can send a "wake-up" packet to a specific MAC address on the local network. The computer then boots up and the administrator can perform tasks or access the PC's drives. After the work is through, the PC either goes into a sleep mode or it shuts off completely, depending on the management software being used.

Link Change is a remote wake up event that is triggered by any change in this LAN card's link state. If you have WOL networking set up on the PC, plugging an active network cable into this card will cause the PC to turn itself on automatically.

Note:

Only install the WOL wires if your motherboard supports remote wake up events. Improperly connecting the wire or connecting it to an incorrect socket may damage your hardware. It's highly recommended that refer your motherboard's manual before you install the card into your computer.

Motherboard Support

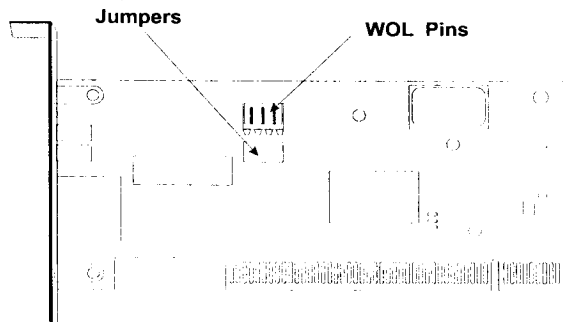
WOL compatible motherboards can support a number of different WOL interfaces. This LAN card is compatible with **Power Management Event (PME)** and **Remote Wake-Up (RWU high power and RWU low power)**. Refer your motherboard's manual or contact the motherboard's technical support to find out which

type your computer will use to communicate with the network card.

Before you continue, locate the jumpers on your LAN card. Use these jumpers to set up the card's function to match the type of WOL support provided by your motherboard.

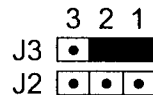
Setting Up Your LAN Card for WOL Use:

1. Use the diagram below to locate the WOL pins and the jumpers on your LAN card.

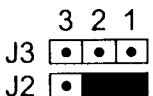


1. Connect one end of the 3-pin WOL wire to the LAN card.
2. Now you need to set the jumpers on your card according to whether your motherboard supports PME, RWU-High, or RWU-Low.

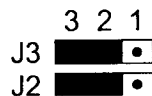
If your motherboard supports **Power Management Event (PME)**, set your jumpers as below:



If your motherboard supports **Remote Wake-Up High (RWU-High)**, set your jumpers as below:



If your motherboard supports **Remote Wake-Up Low (RWU-Low)**, set your jumpers as below:



Once your jumpers are set, be sure to write down the MAC address of the LAN card. It is a sticker attached to the card. Install the card and continue with the driver setup as usual.

Testing WOL Function

In order to use the WOL feature of the LAN card, you need to know the MAC address of the card. If you don't know the MAC address of the card, go the **Start, Run**, and then type **winiipcfg**. If you are using NT, go to a command prompt, then type **ipconfig /all**. In both cases, the MAC address will be displayed.

Send a Magic Packet

1. Turn off the PC on which you want to test the WOL feature. GO to another PC on the Local network and log in.
2. Go to the MS-DOS prompt (click on Start, Run, then type Command and press Enter) and insert the driver diskette. Type a:\ACPIWOL_SET. The program will then ask for the destination of the magic packet. Enter the LAN card's MAC address.
3. Checks to make sure that the PC has been woken up.

Testing Link Change

This test will see if your PC responds to a change in the network link state by waking up. Use a configured PC that is on an active network link.

1. Turn your PC off and disconnect it from the network either by turning off the Hub or Switch or by disconnecting the network cable from the LAN card.
2. Wait about ten seconds, then plug the cable back in, or turn the Hub or Switch on. The PC should be woken up.

Printed in Taiwan