



1000/100/10Mbps Gigabit Ethernet Adapter

USER'S GUIDE

1 PACKAGE CONTENT

This product package should contain:

- One (1) single port Gigabit Ethernet PCI-Bus Adapter Card
- One (1) 3.5" Driver Diskette
- One (1) Warranty Card
- This User's Guide

This product package has passed numerous quality checks to ensure it would be in the perfect condition to use. If anything has happened since then, please contact your place of purchase immediately.

2 KEY FEATURES

2.1 KEY HARDWARE FEATURES

- Adheres to IEEE 802.3, 802.3u, and 802.3ab standards
- IEEE 802.3x Full-Duplex Flow Control support.
- IEEE 802.1p Layer 2 priority queuing support.
- IEEE 802.1q Virtual LAN (VLAN) Tag and Jumbo Frame support.
- PCI v2.2 32 bit, 33 MHz, 5-volt bus compliant.
- Auto-Negotiation support for Auto-Detect 10/100/1000Mbps data rate and Full/Half-Duplex operation mode.
- Automatic crossover support for crossover or regular cable.
- Wake-on-LAN and remote Wake-up support. (for PCI V2.2)

2.2 RJ-45 Port

This single port Gigabit Ethernet Adapter is capable of handling 1000BASE-T, 100BASE-TX and 10BASE-T network data. One (1) RJ-45 female socket is provided for twisted pair cable attachment. The socket has been shielded for improved EMI protection.

2.3 LEDs

Four (4) LEDs are located above the RJ-45 connector.

Name	Color	Function
1000	Green	Lit: 1000Mbps speed Link Status
100	Green	Lit: 100Mbps speed Link Status
10	Green	Lit: 10Mbps speed Link Status
ACT	Green	Blinking: Activity

2.4 1000BASE-T, 100BASE-TX and 10BASE-T

If users have an existing 100BASE-TX and 10BASE-T, it is likely they will easily be able to upgrade to 1000BASE-T. However, there are some important differences between the three types of networks.

2.5 Cable Type

- 1000BASE-T only supports Cat.5 TP cable. (4 pair Category 5 TP cable required)
 - 100BASE-TX only supports Cat.5 TP cable. (2 pair Category 5 TP cable required)
 - 10BASE-T supports Cat.3, 4, or 5 TP cable. (2 pair Category 3, 4, and 5 TP supported)
- Whenever installing new cable, use Cat.5 TP cable.

2.6 Link Distance Limits

Strict limits are placed on the length of cable allowed between devices.

- Workstation to Hub = 100m max.

3 INSTALLING THE ADAPTER

3.1 Network Cable Connection

- Plug One (1) end of a TP cable into the Adapter's RJ-45 socket.
 - Plug the other end of the cable into any 1000BASE-T, 100BASE-TX or 10BASE-T Hub port.
- See 1000BASE-T, 100BASE-TX and 10BASE-T section for details on cable type and length.

3.2 Diskette Software

The Driver Diskette included with this Gigabit Ethernet Adapter contains drivers for most major network operating systems. (NOS)

Step-by-Step instructions on installing drivers are located in the README.TXT file.

The README.TXT file also contains the latest information about the Adapter's operations.

4 TROUBLESHOOTING

Before it left the factory, this Adapter passed a comprehensive quality assurance system to ensure it will provide you the perfect performance. In most cases, network problems are due to:

- Faulty cable
- Improper connections
- Incorrect setup

If the Adapter does not seem to be functioning normally:

- Check that the Adapter has been firmly inserted into the computer's PCI-bus slot.
- Make sure the slot is operating in bus master mode.
- The computer's BIOS may require certain parameters to be set after the card is installed.
- Check that both ends of the network cable are properly attached.
- For 1000BASE-T and 100BASE-TX, make sure you are using Cat. 5 TP cabling.
- Check that all connected network devices are powered "On".
- Make sure the driver matches the NOS.

5 SPECIFICATIONS

Model	10/100/1000Mbps Gigabit Ethernet PCI Bus Adapter (for 32 bit Bus)
Standards	<ul style="list-style-type: none">• 1000BASE-T: IEEE 802.3ab• 100BASE-TX: IEEE 802.3u• 10BASE-T: IEEE 802.3
Bus Type	<ul style="list-style-type: none">• PCI-Bus specification revision 2.2
Network Interface	<ul style="list-style-type: none">• One (1) shielded RJ-45 phone-type jack
Network Modes Supported	<ul style="list-style-type: none">• 1000BASE-T: 4 pair Category 5 TP cable required• 100BASE-TX: 2 pair Category 5 TP cable required• 10BASE-T: 2 pair Category 3, 4, and 5 TP supported• Full-Duplex available in three modes
LED indicators	<ul style="list-style-type: none">• Four green LEDs support for display 1000Link, 100Link, 10Link, Activity status
Environment	<ul style="list-style-type: none">• Operating Temperature: 0° ~ 55° C (32° ~ 131°F)• Storage Temperature: -20° ~ +70° C (-4° ~ 158°F)• Humidity: 10% ~ 90% Non -Condensing
Dimensions	<ul style="list-style-type: none">• 119.9 x 51 mm (4.72x 2 inches)

6 APPLICATIONS

Included drivers for:

- Windows 98SE/ME/NT4.0/2000/XP
- Linux kernel 2.2.x/2.4.x
- Novell Server 4.x/5.x
- Novell Client for DOS

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against electromagnetic interference in a commercial environment. Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE MARK 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.
