

32-bit CardBus

10/100/1000Mbps

Gigabit Ethernet

PC Card

User's Guide

FCC Warning

This equipment has been tested and found to comply with the regulations 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 a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, 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 Mark Warning

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

VCCI Mark Warning

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。



Table Of Contents

INTRODUCTION.....	1
<i>GENERAL DESCRIPTION.....</i>	<i>1</i>
<i>LED INDICATORS.....</i>	<i>1</i>
<i>SUMMARY OF FEATURES.....</i>	<i>2</i>
CARD INSERTION AND REMOVAL	3
<i>CARD INSERTION</i>	<i>3</i>
[1] <i>Insert the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card.....</i>	<i>3</i>
[2] <i>Connect to the Network Media.....</i>	<i>4</i>
<i>CARD REMOVAL.....</i>	<i>4</i>
DRIVER INSTALLATION.....	5
TECHNICAL SPECIFICATIONS	6

Introduction

General Description

The 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card is a credit-card sized Fast Ethernet adapter for connecting a notebook to an IEEE 802.3 Ethernet network, IEEE 802.3u fast Ethernet and IEEE 802.3ab Gigabit Ethernet network, it's designed to work with notebooks or handheld computers that with CardBus slots. Inside its compact package, the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card holds the Gigabit Ethernet controller, network processing interface, RAM for the data buffer a, 68-pin PC Card plug and RJ-45 10/100/1000Mbps Gigabit Ethernet port. It requires no pre-installation setup -- simply insert the PC Card into the computer's 32-bit CardBus slot.

The 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card features LED indicators for Link/Activity, and Speed.

LED Indicators

The 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card provides two LED indicators:

1. Link/Activity (Link/ACT)
 - This indicator lights green when the RJ-45 port is connected to a Ethernet network, if the indicator blinking green will be transmitting/received data to/from the Ethernet network.
2. Link Speed Indicator (SPEED)
 - The indicator lights green when the port is connected to 1000Mbps Gigabit Ethernet Network and the indicator lights amber when the port is connected to 100Mbps Fast

Ethernet Network. Otherwise, this indicator remains off when the port is connected to a 10Mbps Ethernet Network.

Summary of Features

The 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card provides the following features:

- Complies with IEEE 802.3 10BASE-T Ethernet standard
- Complies with IEEE 802.3u 100BASE-TX Fast Ethernet standard
- Complies with IEEE 802.3ab 1000BASE-T Gigabit Ethernet standard
- Complies with ANSI / IEEE 802.3 Auto-Negotiation standard
- Complies with 32-bit CardBus Standard
- Supports Crossover Detection & Auto-Correction
- Built-in Transmit/Receive FIFO data buffer (8K/64K)
- No manual setup switches -- automatically configured by software
- Low power consumption
- Supported driver list:
 - Microsoft Windows XP
 - Microsoft Windows 2000
 - Microsoft Windows Me
 - Microsoft Windows 98SE
 - Microsoft Network Client for DOS (NDIS 2 driver)
 - NetWare Client for DOS (ODI driver)

Card Insertion and Removal

Card Insertion

Follow these steps to install the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card:

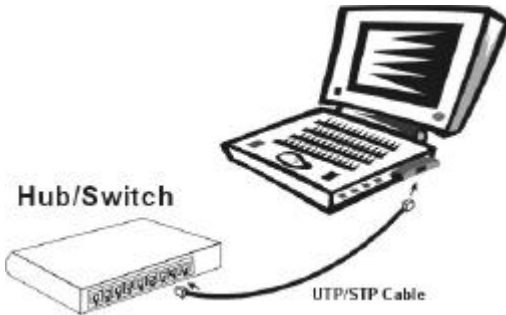
[1] Insert the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card

Find/select an available Type II or Type III 32-bit PC Card slot on your notebook's side or rear panel. Holding the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card with the LED indicator facing up then insert to the 32-bit PC Card slot. Slide the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card all the way into the 32-bit PC Card slot until it reaches a firm stop.



[2] Connect to the Network Media

Simply plug one end of the cable (RJ-45 connector) into an available hub/switch port, and plug the other end (RJ-45 connector) into the RJ-45 port of your 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card.



Card Removal

Use the computer's PC Card Eject mechanism to unseat the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card from the computer's PC Card slot. The *PC Card* will then protrude from the PC Card slot and you can easily remove the *PC Card* by gripping its protruding end and withdrawing it from the *PC Card* receptacle.

Driver Installation

Before you connect the 32-bit CardBus 10/100/1000Mbps Gigabit Ethernet PC Card to the network, you have to install the network driver first. The driver for each networking operating system is under a separate directory. A ***HELPME.EXE*** file under root directory lists the information and detailed installation procedure of all the available drivers.

Card insertion as described in Chapter “***Card Insertion and Removal***” must be completed before you proceed with software installation.

Technical Specifications

General	
Standards	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet ANSI/IEEE Auto-Negotiation 32-bit CardBus PC Card
Protocol	CSMA/CD
Data Transfer Rate	Ethernet: 10Mbps (half-duplex) 20Mbps(full-duplex) Fast Ethernet: 100Mbps (half-duplex) 200Mbps (full-duplex) Gigabit Ethernet: 2000Mbps (full-duplex)
Network Cables	10BASE-T: 2-pair UTP Cat. 3,4,5 EIA/TIA- 568 100-ohm STP 100BASE-TX: 2-pair UTP Cat. 5 EIA/TIA- 568 100-ohm STP 1000BASE-T: 4-pair UTP Cat. 5e EIA/TIA - 568 100-ohm STP
Physical and Environmental	
Temperature	Operating: 0° ~ 40° C, Storage: -10° ~ 70° C
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
EMI:	FCC Class B, CE Mark B, VCCI-B