User's Manual Fast Ethernet CardBus (MPC-200)





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Chapter 1 Introduction

This manual describes how to operate the Fast Ethernet CardBus Card. The Fast Ethernet LAN PC Card is a Credit-card sized Ethernet Card which works with any computer, notebook, sub-notebook or Macintosh PowerBook G3 series, or Card Reader that supports CardBus slots.

CardBus is a function and performance extension of the PC Card (PCMCIA) standards. The CardBus interface is a 32-bit wide and Bus-mastering allowable device. It enhanced the overall system throughput.

This Fast Ethernet CardBus Card could be connected to either 100Mbps Fast Ethernet or 10Mbps Ethernet network.

- For operating in a 100Mbps (100BASE-TX) Fast Ethernet network, a Category 5 unshielded twisted pair (UTP) cable or Category 1 shielded twisted pair (STP) cable should be used.
- For operating in a 10Mbps (10BASE-T) Ethernet network, a Category 3,4, or 5 (UTP) cable or Category 1 shielded twisted pair (STP) cable could be used.

Features

- · CardBus form factor for CardBus equipped portable PCs
- · IEEE 802.3 for 10BASE-T and IEEE 802.3u for 100BASE-TX compliant
- Automatically negotiates 10Mbps or 100Mbps connection speeds, depending on speed of the network
- · Provides full-duplex to enhance throughput

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- · Offers high performance 100Mbps networking via 32-bit, PCI CardBus slot
- · Complies to PC Card 1995 CardBus standards
- · Switch-less design and software configurarble card setting
- 68-pin connector for attachment to PC's CardBus slot, and 15-pin flat connector to media coupler
- 3.3V low power consumption
- LEDs monitoring indicators

Network Interface

RJ-45 to connect with 10BASE-T hub, 100BASE-TX Hub, or Switch Hub

Physical Characteristics

- Standard Conformance: IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-TX
- · Host Interface: PC Card 95 CardBus Standard
- · Ethernet Data Speed: 10Mbps and 100Mbps (Auto-Negotiation)

- Bus Width: 32 bits
- Power: 3.3 V
- Temperature: 0°C~60°C/ 32°F~140°F (Std. Operating)

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- Humidity: 10% to 90%
- · Distance: 100m from Hub to Node
- Dimensions: 86mm x 54mm x 5 mm

Installing the Fast Ethernet CardBus Card

You will be installing the Fast Ethernet CardBus Card in your computer. If you are having trouble locating the slot, refer to the user's manual of your computer or consult the manufacture of your computer.

Gently slide the PC Card into the CardBus PC Card slot. Make sure the Card is firmly seated in the socket and you are ready to setup and install the network drivers.

For a connection to a Fast Ethernet network, use a Category 5 unshielded twisted pair (UTP-5) or Category 1 shielded twisted pair (STP-1) cable with a RJ-45 connector to connect with a 100Mbps port of hub or switch.

For a connection to a 10BASE-T Ethernet network, use a Category 3,4 or 5 (UTP) or (STP) 1 cable with a RJ-45 connector to connect with a 10Mbps port of a hub or switch.

Chapter 2 Getting Started

Installing the Fast Ethernet CardBus Card

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You will be installing the Fast Ethernet CardBus Card in CardBus slot of your computer. If you have trouble locating the slot, please refer to your computer's user manual or consult the dealer of your computer.

Follow the procedure below to install the Fast Ethernet CardBus Card.

- 1. Turn off the host computer.
- 2. With the card's 68 pin connector facing the PCMCIA CardBus slot, gently slide the PC Card into the CardBus slot. Make sure the card is firmly seated in the socket



3. Plug the Ethernet adapter cable to the 15-pin connector on the Fast Ethernet CardBus Card as in the following figure below.



- 4. Connect your Ethernet adapter cable to the network using a RJ-45 cable.
- 5. Power on your notebook computer.
- 6. Now you are ready to install your communication software as described in the following chapters.

LED Indicators



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- 100 LED: This LED is used to indicate the Ethernet speed: The green light indicates a connection with a 100BASE-TX Fast Ethernet network.
- Link/Act LED: This LED is used to indicate the network activity. It is blinking when the PC Card is transmitting or receiving packets from network. It is also lit when indicating a Link to a network.

README

There is one file named Readme on driver diskette which provides the information about this Driver Diskette's contents and installation guide. This file is located in the root directory of the diskette.

Chapter 3 Driver Installation for Mac OS

System Requirements

- Mac OS version 8.1 or above.
- Macintosh G3 PowerBook Series.
- · Card and Socket Service 3.0.
- Open Transport 1.3 or above

Installation

Before your computer system can recognize your Fast Ethernet CardBus Card, it is necessary to run some software to enable it. This section gives a brief overview of the installation process.

Software Installation

- 1. Make sure that the system extensions are left **on** before installing the driver.
- 2. Insert the FastEther CardBus driver diskette into the floppy drive.



3. Double-click the Installer icon. The Easy Install dialog box then appears

Chapter 3 Driver Installation for Mac OS

4. Click the **Install** button. The Installer will install the appropriate driver to your computer.

FastEther Card Installer	
Click the "Install" button to install • FastEther Card v2.0 Extensions on the boot disk	
Install Location G3PB-OS on the disk "G3PB-OS" Switch Disk	Quit Install

5. Click the Restart button when installation is completed.

AppleTalk Setup

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Open the AppleTalk control panel



- Select FastEther Card from the pop-up menu.
- Optional: The Current Zone pop-up menu will be active if zones are available.

	AppleTalk	E		
Connect via:	t via: Ethernet built-in • FastEther Card Infrared Port (IRTalk)			
- Setup	Modem/Printer Por	·t		
Current zone :	< no zones available			
AppleTalk address : 🔲 User defined				
	Node: 127			
Net	twork: 65280			
Network	range: 0 to 65534			
2 Info		Options		

- · Close the control panel when you have finished.
- To confirm the change of network connections, click OK.

TCP/IP Setup

• Open the TCP/IP control panel.

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· Select FastEther Card from the pop-up menu.

Connect via : Setup — Configure :	Apple Laik (MacIP) Ethernet built-in • FastEther Card PPP Manually	
		_
IP Address:	172.16.1.93	
Subnet mask :	255.255.255.0	
Router address:	172.16.1.254	
		Search domains :
Name server addr.:	168.95.192.1 140.111.1.2 139.175.55.244 140.115.1.31 139.175.10.20	hntp1.hinet.net
2		

- · Set up TCP/IP configuration according to the situation of your network environment.
- · Close the control panel when you have finished.
- To confirm the change of network connections, click OK.

Ejecting the FastEther Card

- Open the AppleTalk control panel
- Select an AppleTalk connection other than **FastEther Card**, (e.g. IRTalk, LocalTalk, Printer Port, or Modem Port).
- · Close the control panel and wait for a few seconds.

Chapter 3 Driver Installation for Mac OS

• Drag the FastEther Card icon that appears on the desktop to the Trash.



Then the FastEther Card will eject automatically.

Appendix A Specifications

- Network standard: 10Mbps IEEE 802.3 10BASE-T Ethernet 100Mbps IEEE 802.3u 100BASE-TX Fast Ethernet
- Type II PCMCIA, Hot Plug-and-Play Fast Ethernet CardBus Card, supports Full Duplex 10BASE-T and 100BASE-TX communication
- · Complies with 32-bit PCI Card Bus specification.

- For Windows 3.x and Windows 95, Windows 98 ,and Windows NT operation system.
- Support for Network and Communication Device Class OnNow requirements for Microsoft PC97 and PC98 specification, including all wake-up events.
- Pattern matching with VLAN support.
- · Link change.
- · Magic Packet with SecureON.
- · Supports RJ-45 (STP-1/UTP-3,4,5) media connectivity.
- · Supports the legacy mode: including sleep, snooze, normal and CLKRUN.
- · Contains on chip: PCS and scrambler/de-scrambler for 100BASE-TX.
- · Fully compliant with ANSI 8802-3 and 10BASE-T.
- Support IEEE 802.3 auto-negotiation algorithm of full-duplex and half-duplex operation for 10Mbps and 100Mbps (NWAY).
- · Automatically negotiates 10Mbps or 100Mbps connection speed.
- Integrated large transmit and receive FIFOs provide packet buffering for longer latency.
- Integrated an on chip: DMA with programmable burst size, providing low CPU utilization.
- · Provides 3.3 volt lower power CMOS design devices design.
- LEDs for diagnostics and monitoring use.

Appendix B Pin Assignment

RJ-45 connector

The RJ-45 connector is used to connect with a hub or switch, RJ-45 regular ports can be attached to any devices which use a standard network interface (e.g., a workstation, server, bridge or router). RJ-45 up-link ports can be cascaded to a station port on similar networking devices (e.g., another switch or hub). Use unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for RJ-45 connections: 100Ω Category 3, 4 or 5 cable for 10 Mbps connections or 100 Ω Category 5 cable for 100 Mbps connections. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

Pin	Regular Port	Up-Link Port		
1	Input Receive Data +	Output Transmit Data +		
2	Input Receive Data -	Output Transmit Data -		
3	Output Transmit Data +	Input Receive Data +		
6	Output Transmit Data -	Input Receive Data -		
4,5,7,8	4,5,7,8 Reserve Reserve			



Schematics for straight cable are shown as below.

Straight Through

Straight-Through		010350761	
Switch or Hub	End Node	Switch or Hub	Switch or Hub
1. IRD+	— 1. OTD+	1. IRD+ —	1. OTD+
2. IRD	— 2. OTD-	2. IRD- —	(- 2. OTD-
3. OTD+	— 3. IRD+	3. OTD+	🔨 – 3. IRD+ 🛛
4. OTD	— 4. IRD-	4. OTD/	∕ 4. IRD-

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FCC Warning

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 in a residential installation. This equipment generates, uses and can radiate 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 promise that interference will not happen 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 any of the following measures:

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

You may use unshielded twisted-pair (UTP) or shielded twisted-pair (STP)cable for RJ-45 connections.

CE Declaration of Conformance

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022/95 Class B. This meets the essential protection requirements of the European Council Directive 89/336/EEC on the approximation of the laws of the Member Status relating to electromagnetic compatibility.

You are now cautioned that changes or changes not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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