User's Guide

32-Bit Fast Ethernet CardBus PC Card

# Fast EtherCard-32

What's Inside

Accton

Hardware Description

Before you insert the Fast EtherCard-32 into your machine, please verify if your notebook supports the CardBus standard and provides a Type-II or Type-III slot.

This CardBus PC card's main PCB board is encased in a stainless compact frame that is easily transportable. It provides a 68-pin connector for connecting to the PC and a 15-pin flat connector for attaching the RJ-45 media coupler.

LED Indicators (on Media Coupler)

100 Mbps
Green

Link/Activity
Green/Flashing Green

Link/Act

100
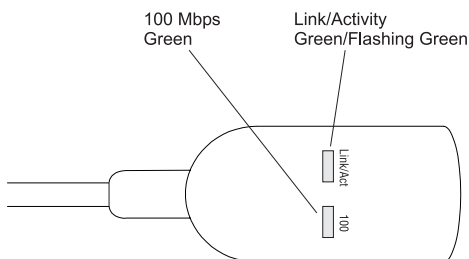
Link/Activity Indicator

Color: Green
Function: The "Link/Act" LED on the adapter's media coupler lights up to indicate a successful network connection. Flashing indicates the presence of network packets passing through the connected port. The rate of flashing is proportional to the amount of network traffic.
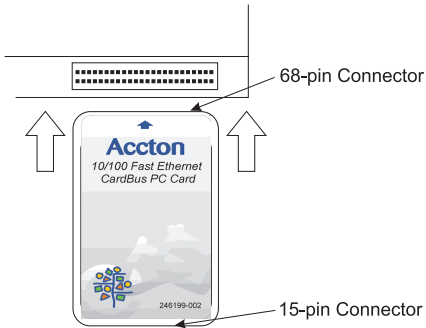
100 Mbps Indicator

Color: Green
Function: The "100" LED lights up to indicate the port is operating at 100Mbps (for a 100BASE-TX connection).

Hardware Installation

1. Select an empty CardBus PC Card slot and insert the Fast EtherCard-32 into that slot as shown below.

2. Connect the RJ-45 media coupler's 15-pin connector to the PC card.

3. Connect the media coupler to a network hub or switch using UTP cable with RJ-45 connectors. Use Category 3, 4 or 5 for 10Mbps connections and Category 5 for 100Mbps connections. The UTP cable should have a maximum length of 100m (328ft).
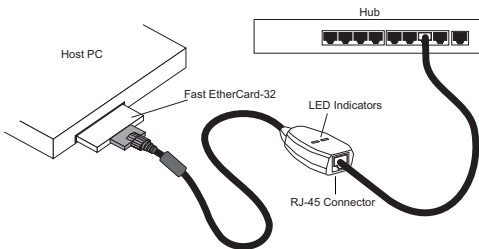
4. Power on your PC and install the appropriate network driver for your operating system. Drivers can be found on the Driver Diskette.

Notes:

1. The card auto-negotiates the speed and duplex mode of the network connection, providing seamless operation on either 10 or 100 Mbps segments.
2. Full-duplex communications allows data to be sent and received simultaneously, doubling the effective throughput. Refer to the readme files on the driver diskette for information on setting the duplex mode.

Software Driver Installation

The diskette, labeled Driver Diskette, comes with the package containing all the software drivers available for the PC Card. A RELEASE.TXT file, describing the contents of the diskette is found in the root directory. Different drivers are stored in separate subdirectories, which also include a text file. Select the driver you need and refer to the text file for the installation procedure.

EMI Certification

FCC Class B Certification

Accton Technology Corporation
Model Number: EN2220

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 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 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) cable for RJ-45 connections.

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

The user may find the following booklet prepared by the Federal Communications Commission helpful:

The Interference Handbook

This booklet is available from the U.S. Government Printing Office. Washington, D.C. 20402. Stock No. 004-000-00345-4.

Note: In order to maintain compliance with the limits of a Class B digital device, Accton requires that you use a quality interface cable when connecting to this device. Changes or modifications not expressly approved by Accton could void the user's authority to operate this equipment. Suggested cable type is unshielded twisted-pair (UTP) for RJ-45 connections.

Industry Canada - Class B

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radio-électriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dens le Règlement sur le brouillage radioélectrique édicté par l'Industrie.

VCCI Class B Compliance

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。
　　取り扱い説明書に従って正しい取り扱いをして下さい。

EN55022 Declaration of Conformance

This is to certify that the Accton Ethernet Adapter is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN55022:1987 Class B (CISPR 22:1985/BS 6527:1988).

Specifications

Standards Conformance	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	PC Card 97 CardBus Standard
	ACPI v1.0
	Microsoft OnNow/PC98
Ethernet Data Rate	10 and 100 Mbps (Auto-Negotiation)
	or 20 and 200 Mbps at full duplex
Data Bus Access	32-bit Bus Mastering
I/O Address/ Interrupt	Detected by BIOS or Card Service
System Clock	33 MHz
Media Connection	1 female RJ-45 port
	for 10BASE-T & 100BASE-TX
Power Requirements	+3.3VDC, 150mA max.
LED Indicators	Link/Activity, 100Mbps
Temperature	0~55 °C / 32~131 °F (Std. Operating)
	-20~65 °C / -4~149 °F (Storage)
Humidity	10% to 90% (Noncondensing)
Dimensions	86 x 54 x 5mm (3.38 x 2.12 x 0.2 in)
Weight	35g (1.2oz)
Hardware Certification	FCC Class B, VCCI Class B, CISPR22
	Class B, CE Mark
Immunity	IEC 1000-4-2/3/4/6

Software Drivers

NetWare ODI Drivers	NetWare Server 4.11, 5.0, NetWare
	DOS/ODI, NetWare Client32 (for
	NeDOS32, NetWare, Linux(RedHat
	V5.0, V6.x), Windows 3.x, Windows
	95, Windows NT 4.0 and above)
NDIS Drivers	Windows 95, Windows 95 OSR2,
	Windows 98, Windows NT 4.0,
	Windows 2000, Microsoft LAN
	Manager, Windows for Workgroups
	3.11, IBM LAN Server DOS Client,
	DEC Pathworks, SUN PC-NFS,
	Banyan VINES
Packet Drivers	FTP PC/TCP, NCSA TCP/IP

Technical Support

Your dealer or installer is the person who understands your network and equipment. If neither is available to help you, Accton technical support engineers are available by fax, mail or phone.

Send your technical questions by fax to:

- International Headquarters: 886-3-577-0267
- USA Headquarters: 949-707-2460

Send your technical questions by email to:
support@accton.com.tw

To obtain software upgrades, see the Accton Web site at:
http://www.accton.com

Mail your technical questions to:

- **International Headquarters**
  Accton Technology Corporation
  Attn: Technical Support
  No. 1 Creation Road III
  Science-based Industrial Park
  Hsinchu 300, Taiwan, R.O.C.

- **USA Headquarters**
  Accton Technology Corporation
  Attn: Technical Support
  P.O. Box 51420,
  Irvine, CA 97619-1420, U.S.A.

During local business hours, call:

- **International Headquarters**
  Monday through Friday
  8 a.m. to 6 p.m.:
  886-3-5770-270

- **USA Headquarters**
  Monday through Friday
  7 a.m. to 5 p.m. Pacific Time:
  949-707-4847 or 888-398-4101

Warranty

Accton warrants to the original owner that the product delivered in this package will be free from defects in material and workmanship for the lifetime of the product. For the warranty to apply, you must register your purchase by returning the registration card indicating the date of purchase and including proof of purchase. There will be a minimal charge to replace consumable components, such as fuses, power transformers, and mechanical cooling devices. The warranty does not cover the product if it is damaged in the process of being installed. Accton recommends that you have the company from whom you purchased this product install it.

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF ANY PROPOSAL, SPECIFICATION OR SAMPLE. ACCTON SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. ACCTON NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY.

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