

EZ CardBus 10/100

Fast Ethernet CardBus Network Card

- ◆ EZ one-step installation
- ◆ 32-bit CardBus standard interface
- ◆ Hot swappable capability
- ◆ Auto-negotiation of speed and duplex mode
- ◆ Low power consumption
- ◆ Built-in RJ-45 socket

SMC®
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User Guide

SMC8036TX



EZ Switch 10/100 User Guide

From SMC's EZ line of low-cost workgroup LAN solutions

SMC[®]

Networks

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* SMC will provide warranty service for one year following discontinuance from the active SMC price list. Under the limited lifetime warranty, internal and external power supplies, fans, and cables are covered by a standard one-year warranty from date of purchase.

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COMPLIANCES

FCC Class B Certification

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

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.

CSA Statement (Canada)

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 dans le Règlement sur le brouillage radioélectrique édicté par l'Industrie

VCCI Class B Compliance (Japan)

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取り扱い説明書に従って正しい取り扱いをして下さい。

EC Conformance Declaration - Class B

SMC contact for these products in Europe is:

SMC Networks Europe,
Edificio Conata II,
Calle Fructuós Gelabert 6-8, 2^a, 4^a,
08970 - Sant Joan Despí,
Barcelona, Spain.

This information technology equipment complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE Mark accordingly. It conforms to the following specifications:

EMC: EN55022 (1988)/CISPR-22 (1995) Class B	
IEC 1000-4-2 (1995)	4 kV CD, 8 kV AD
IEC 1000-4-3 (1995)	3 V/m
IEC 1000-4-4 (1995)	1.0 kV - (power line) 0.5 kV - (signal line)
IEC 1000-4-6 (1995)	3 Vrms
IEC 1000-4-11 (1995)	Voltage drop

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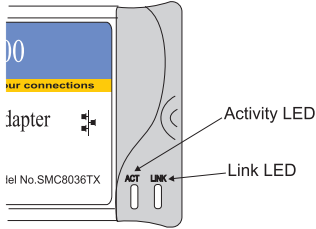
ABOUT THE EZ CARDBUS 10/100

SMC's EZ CardBus 10/100 card is a credit card-sized Fast Ethernet network card for portable computers. This CardBus network card combines the power of Fast Ethernet with the speed of the 32-bit CardBus standard supported by today's new high-performance portable computers.

The EZ CardBus 10/100 card is compatible with 10 Mbps and 100 Mbps networks, and supports Auto-Negotiation to automatically configure itself to run at the highest possible connection speed. The card features a built-in RJ-45 socket that allows you to plug the network cable directly into it. The EZ CardBus 10/100 also complies with ACPI and OnNow/PC97.

LED Indicators

The SMC8036TX includes two status LED indicators, as described in the following figure and table.



LED	Condition	Status
ACT	On Green	Indicates a valid network connection
	Flashing Green	Indicates incoming and outgoing network traffic
LINK	On Green	Indicates a valid 100 Mbps network connection
	On Amber	Indicates a valid 10 Mbps network connection
	Off	Indicates no network connection

Features and Benefits

- ◆ Compatible with IEEE 802.3 Ethernet and IEEE 802.3u Fast Ethernet standards
- ◆ Compliant with 32-bit bus-mastering CardBus standard for CardBus-enabled portable computers
- ◆ Full and half-duplex support for both 10 Mbps and 100 Mbps speeds
- ◆ Auto-Negotiation selects 10/100 Mbps and full/half duplex automatically
- ◆ Low power consumption and intelligent power management preserves battery life of portable computers
- ◆ Hot Swappable capability enables card to be inserted and removed without powering down or reconfiguring the computer
- ◆ Driver support for Microsoft Windows 95/98/2000, Windows ME, Windows NT, Novell NetWare and other popular operating systems

INSTALLING THE CARD

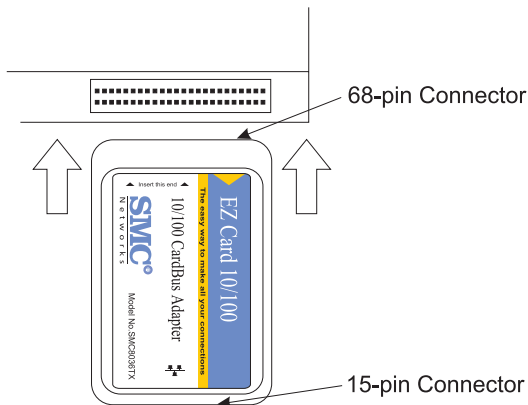
Equipment Checklist

After unpacking the EZ CardBus 10/100 card, check the contents of the box to be sure you have received the following components:

- EZ CardBus 10/100 card SMC8036TX
- SuperDisk driver diskette
- SMC Warranty Registration Card
- User Guide

Instructions

1. Hold the EZ CardBus 10/100 card with the label facing up and the 68-pin connector facing the CardBus PC Card slot. Insert the card into the slot as shown in the figure below.



2. Connect the EZ CardBus 10/100 card to a network hub or switch using UTP cable with RJ-45 connectors. Use Category 3, 4 or 5 for 10 Mbps connections and Category 5 for 100 Mbps connections. The UTP cable should have a maximum length of 100 m (328 ft).
3. 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 allow 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.

Installing the Drivers

This CardBus network card can be used with any of the drivers provided on SMC's SuperDisk driver diskette. A RELEASE.TXT file describing the contents of this disk can be found in the root directory. Each driver is stored in a separate subdirectory along with a text file describing the installation procedure. Select the driver you need for your system and refer to the corresponding text file for the installation procedure.

Driver updates can be downloaded from SMC's web site (see the back cover of this guide). Download the file **8034.EXE** for the latest EZ CardBus 10/100 card driver.

Diagnostics Program

If the EZ CardBus 10/100 card is not automatically configured by the host PC, or there is a problem with the card, run the DOS-based Diagnostics Program to help test the card. The program and text information file can be found on the Driver Diskette in the “\Diag” directory.

TROUBLESHOOTING

Symptom

Link LED does not light after connection is made.

Probable Causes

10BASE-T/100BASE-TX hub port, network card or cable may be defective.

Possible Solutions

- Check that the host computer and hub are both powered on.
- Be sure the network cable is connected to both devices.
- Verify that Category 5 cable is used if you are operating at 100 Mbps and that its length does not exceed 100 m (328 ft).
- Check the network card connections for defects.
- Replace the defective cable if necessary.

SPECIFICATIONS

Ports

1 RJ-45 for 10BASE-T and 100BASE-TX

Host Interface

PC Card 97 CardBus standard

LEDs

Link, Activity

Data Bus Access

32-bit bus mastering

Size

3.39 x 2.13 x 0.2 in. (8.6 x 5.4 x 0.5 cm)

Weight

1.23 oz (35g)

Power Requirements

150 mA @ 3.3V

Temperature

Operating: 32 to 131 °F (0 to 55 °C)

Storage: -4 to 149 °F (-20 to 65 °C)

Humidity, noncondensing

10% to 90%

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX

IEC 1000-4-2/3/4/6/11

PC Card 97 CardBus

Compliances

FCC Class B

VCCI Class B

CE Mark

CISPR 22 Class B

NetWare ODI Drivers

NetWare DOS/ODI

NetWare 32-Bit ODI

NDIS 2 Drivers

Windows 95

Microsoft LAN Manager

Windows for Workgroups 3.11

IBM LAN Server DOS Client

NDIS 3/4 Drivers

Windows 95 OSR2

Windows 98

Windows NT 3.51, 4.0

Windows 2000

Packet Drivers

FTP PC/TCP

NCSA TCP/IP

Card Enabler

DOS Card and Socket Services

SPECIFICATIONS

FOR TECHNICAL SUPPORT, CALL:

From U.S.A. and Canada (24 hours, 7 days a week)
(800) SMC-4-YOU; (949) 707-2400; (949) 707-2460 (Fax)
From Europe (8:00 AM - 5:30 PM UK Greenwich Mean Time)
44 (0) 1188 748740; 44 (0) 1189 748741 (Fax)

INTERNET

E-mail address:
techsupport@smc.com
european.techsupport@smc-europe.com
Driver updates:
<http://www.smc.com/support.html>
World Wide Web:
<http://www.smc.com/>
FTP Site:
<ftp.smc.com>

FOR LITERATURE OR ADVERTISING RESPONSE, CALL:

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UK:	44 (0) 1188 748700;	Fax 44 (0) 1189 748701
Southern Europe:	33 (1) 41.18.68.68;	Fax 33 (1) 41.18.68.69
Central/Eastern Europe:	49 (0) 89 92861-200;	Fax 49 (0) 89 92861-230
Nordic:	46 (8) 564 33145;	Fax 46 (8) 87 62 62
Middle East:	971-48818410;	Fax 971-48817993
South Africa:	27 (0) 11-3936491;	Fax 27 (0) 11-3936491
PRC:	86-10-6235-4958;	Fax 86-10-6235-4962
Taiwan:	886-2-2747-4780;	Fax 886-2-2747-9220
Asia Pacific:	(65) 238 6556;	Fax (65) 238 6466
Korea:	82-2-553-0860;	Fax 82-2-553-7202
Japan:	81-45-224-2332;	Fax 81-45-224-2331
Australia:	61-2-9416-0437;	Fax 61-2-9416-0474
India:	91-22-8204437;	Fax 91-22-8204443



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