

FriendlyNet™ PC Card

for PowerBook computers

Installation Guide and User's Manual

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San Jose, CA 95131

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This Asanté FriendlyNet PC Card has a limited lifetime warranty which applies to the original purchaser of the product. The accompanying 10T/TN cable or 10T cable has a one-year warranty.

Asanté Technologies, Inc. warrants that the FriendlyNet PC Card will be free from defects in title, materials, and manufacturing workmanship. If the FriendlyNet PC Card is found to be defective, then, as your sole remedy and as the manufacturer's only obligation, Asanté Technologies, Inc. will repair and replace the product provided that (1) you call Asanté Technologies, Inc. for a Returned Merchandize Authorization (RMA) number, that (2) you clearly write this RMA number on the outside of the package, and that (3) you return it, postage prepaid, during the warranty period. This warranty is exclusive and is limited to the Asanté FriendlyNet PC Card. This limited lifetime warranty shall not apply to FriendlyNet PC Card products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, or any condition other than what can be considered normal use.

Note: The warranty card must be filed with Asanté Technologies within 30 days after the date of purchase.

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1

Introduction

The FriendlyNet PC Card

Thank you for purchasing Asanté's FriendlyNet PC Card, an Ethernet adapter that connects any PC card-equipped PowerBook computer to an Ethernet network system.

Available with BNC and RJ-45 connectors for thin and 10BASE-T Ethernet cable, the FriendlyNet PC Card is hot-swappable, easy to install and remove, and provides communication with servers, printers and other network devices on an Ethernet cable system.

Features

- Installs in minutes with easy-to-use installation software
- Maintains network connection during the computer's energy-saving sleep mode
- Compliant with PCMCIA 2.1 Type II slots
- Supports all popular network operating systems
- Supports protocol analyzer software such as EtherPeek™
- Hot-swappable
- Compact and lightweight — quickly inserted and removed

Package Contents

- FriendlyNet PC Card
- Software Installation Disk
- Installation Guide/User Manual
- Warranty Registration Card
- RJ-45 Cable with a 15-pin connector (10BASE-T only)
- Network Media Module with a 15-pin connector cable (Combo only)
- BNC T-connector (Combo only)

2

Installation

Installation Overview

This chapter describes the FriendlyNet PC Card and the procedures for installing and using it.



If you have a **Global Village modem** installed in your computer, or are thinking of purchasing one, please read the section *Working with Global Village Modems* on page 2-4 before installing the card.

Installation of the FriendlyNet PC Card consists of three procedures:

- Software installation
- Hardware setup
- Connecting to the network

Software Installation

- 1 Insert the FriendlyNet Software Install Disk into the disk drive.
- 2 Double click the **Installer** icon.
- 3 Click **Continue**.
The Asanté Install window appears.



Figure 2-1 Asanté Install window

- 4 Verify that the destination disk is your Hard Drive.

- 5 Make sure the Asanté FriendlyNet PC Card Driver is in the list of drivers to be installed.
- 6 Click **Install**. The installation program begins.
- 7 Insert the FriendlyNet PC Card (logo facing up) into your PowerBook's PCMCIA slot after the installation program completes, then click **Restart**.
- 8 Connect the FriendlyNet PC Card to the network, as described in the next section.

Hardware Setup

10BASE-T PC Card

To connect the 10BASE-T PC Card:

- 1 Connect the 15-pin connector of the provided cable to the FriendlyNet PC Card's Slot Connector. See Figure 2-2.

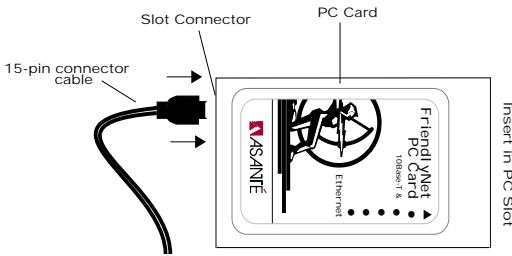


Figure 2-2 Connecting 15-pin connector to the FriendlyNet PC Card

- 2 Connect the RJ-45 end of the cable to the 10BASE-T hub in your network.
- 3 Skip to the next section *Connecting to the Network* on page 2-4 to continue with the installation.

Combo PC Card

The Combo PC Card contains a Network Media Module with a 15-pin connector cable and a BNC T-connector.

To connect the Combo PC Card:

- 1 Connect the 15-pin connector of the provided cable to the FriendlyNet PC Card.

- 2** For a 10-BASE-T network, connect a cable with RJ-45 connectors on both ends to the Network Media Module and the 10BASE-T hub. See Figure 2-3.

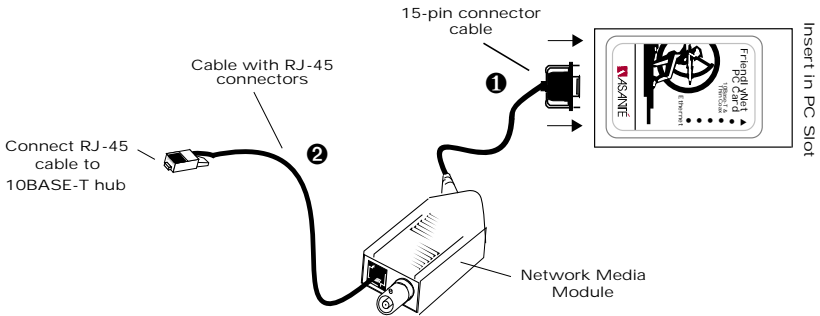


Figure 2-3 Connecting the FriendlyNet PC Card to a 10BASE-T network

- 3** For a thin coax network, connect the provided BNC T-connector to the Network Media Module's BNC connector. See Figure 2-4.

- ▲ If the PowerBook computer is the last node in the network, terminate one end of the T-connector with a 50 ohm terminator. Connect the other end of the T-connector to your network.
- ▲ If the PowerBook computer is not the last node in the network, connect both ends of the T-connector to other nodes in the network.

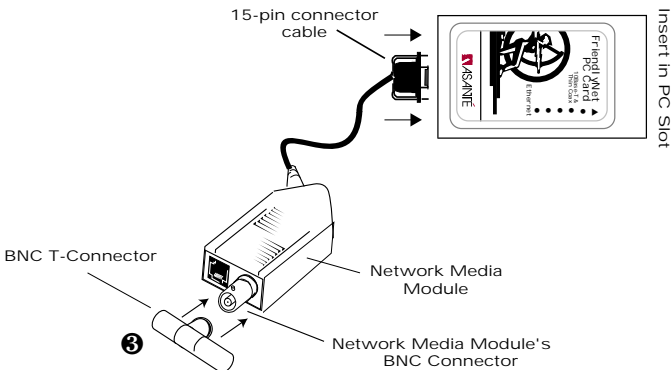


Figure 2-4 Connecting the FriendlyNet PC Card to a thin coax network

Connecting to the Network

After inserting and connecting the FriendlyNet PC Card, log on to the network following the instructions below.

- 1 After powering-up the computer, the FriendlyNet PC Card icon appears on the screen.*
- 2 Double click the **FriendlyNet PC Card** icon (or open the Network Control Panel if you have Operating System 7.5.2 or less installed, or the AppleTalk Control Panel if you have Operating System 7.5.3 installed).
 - If you have Operating System 7.5.3 installed, select **Alternate Ethernet** in the Connect Via: drop-down menu box. The current zone should display the network segment to which are connected.
 - For prior versions of the Operating System, select the **EtherTalk Alternative** icon. Click OK to change from Local to EtherTalk
- 3 Close the Control Panel.
- 4 Open the **Apple** menu and select **Chooser**.
- 5 Click the **AppleShare** icon.
- 6 Select the network server to log on to the network.

Working with Global Village Modems

For the Asanté FriendlyNet PC Card and Global Village modem to work together properly, you must install the Global Village modem **before** the FriendlyNet PC Card.

If you have the FriendlyNet PC Card currently installed and working on your computer, you must re-install the FriendlyNet software after installing the Global Village modem.

See page 4-1 of this manual for more help on using Global Village modems with the FriendlyNet PC Card.

* If the FriendlyNet PC Card icon does not appear on the screen, refer to page 4-1 for help.

3

Removing the FriendlyNet PC Card

This chapter explains how to remove the FriendlyNet PC Card hardware and software from the computer.

Hardware

To remove the FriendlyNet PC Card:

- ▲ Make sure you exit from all network applications before ejecting the FriendlyNet PC Card from your computer.
- 1 Drag the FriendlyNet PC Card icon to the trash.
- 2 The computer automatically ejects the card from the slot.
- 3 Once the card is ejected, remove the 15-pin connector.

Software

To remove the FriendlyNet PC Card software driver:

- 1 Insert the FriendlyNet Software Installation Disk into the disk drive.
- 2 Double click the **Installer** icon.
- 3 Click **Continue** on the Asanté EtherTalk Installer splash screen.
- 4 Select **Custom Remove** from the drop-down menu in the Asanté Install window.
- 5 Click the **Asanté FriendlyNet PC Card Driver** in the list of drivers window.
- 6 Click **Remove**.
- 7 Click **Restart** when the “Removal was successful” window appears to complete the removal.

4

Troubleshooting

Troubleshooting Tips for the FriendlyNet PC Card

The following are suggestions to possible problems/error messages you may encounter when using the FriendlyNet PC Card.

ERROR MESSAGE: "The correct software you need to use the PC Card in the lower PC Card slot is not installed. Do you want to eject the card now?"

- If you receive this message after inserting the PC Card into the PowerBook, ignore the message by clicking on Cancel.

Two Global Village icons appear instead of one Global Village icon and one FriendlyNet PC Card icon when restarting the computer.

- This does not affect the functionality of the FriendlyNet PC Card.
- To reach the Network/AppleTalk Control Panel, use the Apple Menu.

Cannot Switch from the LocalTalk to the EtherTalk Alternative.

- Check if the Asanté FriendlyNet PC Card driver is installed.
- Check the connection between your PowerBook FriendlyNet PC Card and the network (link light should be green).

Cannot see the servers or other AppleTalk network neighbors in your network.

- Launch the Network Control Panel (Operating System 7.5.2 or less) or the AppleTalk Control Panel (Operating System 7.5.3).
- Switch from LocalTalk to EtherTalk Alternative again.
- Open the Choose menu and select AppleShare.

Troubleshooting

Cannot find FriendlyNet PC Card in EtherPeek "Interfaces Available" List.

- Make sure you are using EtherPeek version 3.x or higher.**
- If a modem is inserted in the other PC slot, eject the modem prior to running EtherPeek on the FriendlyNet PC Card.**

No "EtherTalk Alternative" icon in the Network Control Panel.

- Check if the Apple EtherTalk software is installed. If it is not, install the EtherTalk software using your MacOS System Software Installation diskettes. (You can use the "Floppy Disk Maker" application in the Utilities folder in your PowerBook.)**

A

Technical Specifications

Standards Supported

PCMCIA Release 2.1. IEEE 802.3 Ethernet. FCC Class B certified.

Compatible Platforms

Macintosh PowerBooks with PCMCIA slots, including PowerBook 190 and 5300.

Network Operating Systems

Apple System 7.5.2 or later, AppleShare, Novell NetWare for Macintosh, AppleTalk, and TCP/IP.

Media

10BASE-T and thin coax or 10BASE-T only.

Diagnostic LEDs

Traffic and link integrity (10BASE-T only).

Physical Dimensions

85mm x 54mm x 5mm (PC Card Type II form factor).

Operating Conditions

0° to 55° C, 10 to 90% humidity (non-condensing).

Warranty

Lifetime warranty for the FriendlyNet PC Card.

One-year warranty for the 10T/TN cable (part number 60-10062-00) and the 10T cable (part number 60-10063-00).

Support

Free technical support by phone, Fax, commercial on-line BBS.

Models

FNPB 10T (10BASE-T only)

FNPB 10T/TN (10BASE-T and thin coax)

B

Technical Support

Contacting Technical Support

To contact Asanté Technical Support:

| | |
|------------------------------|--|
| Telephone | (800) 622-7464 (408) 435-0706 |
| Fax | (408) 432-6018 |
| Fax-Back | (800) 741-8607 (408) 954-8607 |
| Bulletin Board Service (BBS) | (408) 432-1416 |
| ARA BBS (guest log in) | (408) 894-0765 |
| AppleLink mail/BBS | ASANTE |
| FTP Archive | ftp.asante.com |
| Internet Mail | support@asante.com |
| WorldWide Web Site | http://www.asante.com |

Technical Support Hours

6:00 AM to 6:00 PM Pacific time USA, Monday - Friday.