

# AsantéFast™ 10/100

Dual Platform  
For Macintosh and PC's

PCI Ethernet Adapter  
Installation Guide





# **AsantéFast™ 10/100**

**Dual Platform  
For Macintosh and PC's**

## **PCI Ethernet Adapter Installation Guide**

**Asanté Technologies, Inc.  
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# 1

## Introduction

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### Conventions

This manual describes the installation procedures for :

- ❑ AsantéFast 10/100 adapter for PCI

It also applies to two platforms:

- ❑ PC compatible
- ❑ Apple Power Macintosh

Most of the information applies to both platforms. When the information is specific to a platform, it is noted in the heading for the section or sub-section.

### AsantéFast 10/100 Adapter for PCI

The AsantéFast 10/100 adapter for PCI gives you all-in-one compatibility with 10BASE-T and 100BASE-TX Ethernet networks for both PCI-based PC and Power Macintosh computers. It's ideal for resource intensive CAD/CAM, client-server database, multimedia, pre-press, mission-critical, and server applications.

Install the AsantéFast 10/100 adapter on your existing 10Mbps (10BASE-T) network to take advantage of the high-performance design and high-speed PCI bus right from the start. Then, when it's time to switch to 100Mbps (100BASE-TX), simply plug the cable into an AsantéFast 100 hub or other 100BASE-TX-compliant hub and your adapter is automatically ready to run at the 100Mbps speed. A single RJ-45 port and drivers support both 10 and 100Mbps operations.

Using NWay™ auto-negotiation, the adapter senses the hub speed and configures the adapter accordingly. For added ease-of-use, the AsantéFast 10/100 adapter has four LED lights for instant troubleshooting.



## Introduction

### AsantéFast 10/100 adapter for PCI Features

- 32-bit bus mastering design allows maximum throughput without loading the host CPU.
- Installs easily with plug-and-play auto-configuration through the PCI BIOS (system ROM).
- Easily visible LEDs indicate 10Mbps operation, 100Mbps operation, Link integrity, Data traffic and Full duplex.
- NWay™ auto-negotiation determines 10Mbps operation, 100Mbps operation, or full duplex operation automatically.
- Supports full duplex mode for 20 or 200Mbps operation.
- 100% compliant with IEEE 802.3 10BASE-T and 802.3u 100BASE-TX Ethernet standards.
- Supports major network operating systems for PC and Power Macintosh platforms.
- Jumperless and switchless operation.
- Compliant with PCI specifications, version 2.0.

### Package Contents

Please make sure that you have the following items:

- AsantéFast 10/100 adapter for PCI
- Installation Guide in PDF format on diskette (this manual)
- Registration Card
- One Driver Disk which includes the following software for both PCI-based PC and Power Macintosh computers:
  - Device drivers for popular network operating systems
  - Driver-dependent supporting files
  - Diagnostic utility software
  - Driver installation documents

- △ **Note:** The included Driver Disk is DOS formatted. Apple Computer's System 7.5 OS can read the installation program and the driver from this disk. To use this disk on PCI-based Power Macintosh computers, make sure that you do not disable the System Extensions during power-up and that PC Exchange is enabled in the Extensions Manager.

## PCI Local Bus

The PCI (Peripheral Component Interconnect) local bus is an industry standard, high-performance bus designed for high I/O throughput. The 32-bit PCI bus runs at a maximum of 33MHz, while handling a maximum data transfer rate of 132 MBytes/second.

One of the advantages of the PCI bus is that it is processor-independent. The AsantéFast PCI adapters is capable of working with both PCI-based PC and Power Macintosh computers. PCI devices are also self-configuring, making them very easy to install and use.

The Asanté PCI adapter uses 32-bit bus mastering architecture allowing maximum throughput with low CPU utilization.

- ▲ **Important:** The PCI bus slot used must support bus-mastering operations.



# 2

## Installing the Asanté PCI Adapter

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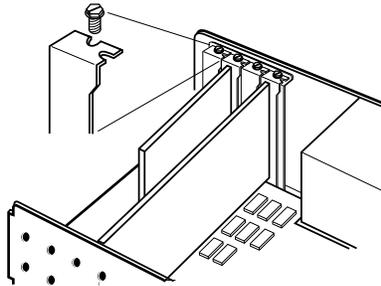
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### Installing the Adapter

The following instructions explain how to install the Asanté PCI adapter.

△ **Note:** You do not need to set any jumpers or switches on the adapter.

- 1 Turn the power off and remove the computer cover.
  - ▲ **Important:** A network adapter is sensitive to static electricity and must be handled carefully. If you do not handle the adapter properly, you can damage it and/or your system.
- 2 Align the adapter's edge connector with a PCI bus slot.
  - ▲ **Important:** The PCI bus slot used must support bus-mastering operations.
- 3 Push the adapter down into the slot until the adapter locks into place as shown below.



- 4 Replace the computer cover.



## Installing the Asanté PCI Adapter

### Connecting the Adapter to the Network

The AsantéFast 10/100 adapter provides a single RJ-45 port for connecting the adapter to your network. Using NWay™ auto-negotiation, the adapter senses the hub/switch's speed and sets the adapter to run at either 10Mbps or 100Mbps.

**Important:** Connection to a 100BASE-TX hub for 100Mbps operation requires a Category 5 unshielded twisted-pair (UTP) cable. The maximum length from the 100BASE-TX hub to the adapter is 100 meters. Connection to a 10BASE-T hub for 10Mbps operation requires a Category 3, 4, or 5 UTP cable.

### Connecting a UTP Cable

To connect your UTP cable to the network using the RJ-45 connector, follow the instructions below:

- 1** Plug the RJ-45 connector on one end of your UTP cable into the adapter's RJ-45 port.
- 2** Plug the other end of your UTP cable into the network hub or wall socket connected to a network hub.
- 3** Turn the computer power on.

## Configuring the Adapter

### Self-Configuring the Adapter

One of the advantages of PCI is that all of its devices are self-configuring. The Asanté PCI adapter is designed to utilize this feature.

To configure the adapter, plug it into a PCI slot with bus-mastering capability. During system initialization at power-up, the PCI BIOS (system ROM) configuration software automatically selects an unused interrupt line and I/O addresses for use with the adapter. You do not need to set interrupts, I/O addresses, jumpers, or switches to configure the adapter.

### Computers without the Self-Configuring Feature

Early versions of PCI BIOS do not support the PCI specification, version 2.0. To successfully install the adapter in computers without the self-configuring feature, you may need to modify IRQ jumper settings on the computer's motherboard and/or modify the PCI BIOS setup with the setup utility that came with your computer system. Refer to your computer manuals for information on changing the BIOS setup for a PCI bus.

- △ **Note:** Check with your computer manufacturer to see if your computer properly supports the PCI Specification, version 2.0.
- △ **Note:** It is recommended that you verify the PCI configuration using the PCI BIOS setup utility after installing the adapter. Check that your PCI configuration does not conflict with other bus configuration.

After power-up initialization, the adapter automatically connects at the appropriate speed (10Mbps or 100Mbps) and/or full duplex without user intervention. Full duplex operation can only be configured with a switch product that supports it.

If you are initially planning to use the adapter to run at 10Mbps speed, when you are ready to upgrade to 100Mbps (100BASE-TX), it will not be necessary to modify the configuration or settings. The same driver will run at both 10Mbps or 100Mbps speed.

Another benefit of NWay auto-negotiation is that a connection will not occur without a common mode of operation between connecting devices. This preserves network integrity and minimizes network downtime.

Installing the Asanté PCI Adapter

## Testing the Adapter

Conducting a test is recommended after performing a first-time installation of the adapter. A successful test ensures that the adapter is operating properly. A diagnostic program for testing the adapter is included on the Driver Disk. This program runs a number of tests and indicates the results with PASS or FAIL.

Please refer to *Chapter 4* for instructions on how to use the diagnostic program.

# 3

## Installing Network Drivers

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### Network Operating Systems Supported

After installing, configuring and testing the Asanté PCI adapter, you are ready to install network drivers and work with your network operating system.

The network operating systems supported are:

#### PC Networks

- Novell NetWare
- Microsoft Windows for Workgroups
- Microsoft Windows 95/98
- Microsoft Windows NT
- NDIS- and ODI-compliant operating systems

#### Power Macintosh Networks

- Apple System 7.6.1 or higher
- AppleShare
- Novell NetWare for Macintosh
- AppleTalk

This chapter describes driver installation in the following environments:

#### PC Networks:

- Novell NetWare 3.12 Client
- Novell NetWare 4.x Client
- Microsoft Windows for Workgroups 3.11
- Microsoft Windows NT Workstation
- Microsoft Windows 95/98

#### Power Macintosh Networks:

- Power Macintosh Open Transport Driver



## Installing Network Drivers

### Other Operating Systems

In general, the adapter supports a network operating system (NOS) that works with NDIS and ODI drivers. For instructions on installing and configuring the adapter with other operating systems, refer to the INSTALL.TXT files in each specific NOS subdirectory on the Driver Disk.

- △ **Note:** The same installed driver can be used for 10Mbps or 100Mbps operation with the AsantéFast 10/100 PCI Rev B.Adapter.

## Installing Network Specific Drivers

### Novell NetWare 3.12 Client

This section explains how to install Novell NetWare version 3.12 ODI client software.

- △ **NOTE:** If you want to use the Netware DOS Requester, use the Novell Client Install Disks.

- 1 Create a directory named `NWCLIENT` on your C drive.
- 2 Insert the Asante PCI Network Driver Disk into drive A and change to the subdirectory `NETWARE\NW312\CLIENT`.
- 3 Copy the following files from the Driver Disk to the `NWCLIENT` directory on your C drive:
  - `LSL.COM`
  - `NET.CFG`
  - `L100.COM`
- 4 You will need to download the following files from Novell:  
`IPXODI.COM` and `NETX.COM`.
- 5 Check your `CONFIG.SYS` file to make sure that the following line appears:`DEVICE=C:\DOS\SETVER.EXE` assuming that `\DOS` is the directory where you have all your DOS files including `SETVER.EXE`.
- 6 Remove the Asante PCI Network Driver Disk from drive A.

## Installing Network Specific Drivers

- 7 Restart your computer.
- 8 To run NetWare, type the following four commands (in the following):
  - LSL
  - L100
  - IPXODI
  - NETX
- 9 Change to the network drive (usually F) and log in to your network.
  - △ **NOTE:** NETX.EXE (dated 930217) will work with DOS 6.0 or lower version only. You will need NETX.EXE (dated 931117) to work with DOS 6.22.
  - △ **NOTE:** Remove the line LASTDRIVE=Z from your CONFIG.SYS file, if you use NETX. If you use VLM LASTDRIVE=Z is required in your CONFIG.SYS file.

### Settings for SPEED and DUPLEX MODE in NET.CFG

AUTODETECT		AutoDetect Linespeed,Media
LINESPEED	10M_TP_FD	10Mbps Full Duplex Mode.
LINESPEED	100M_TX_FD	100Mbps Full Duplex Mode.
LINESPEED	10M_TP	10Mbps Half Duplex Mode.
LINESPEED	100M_TX	100Mbps Half Duplex Mode.

## Installing Network Drivers

### Novell NetWare 4.x Client

This section describes how to install Novell NetWare 4.x ODI client software to work with the AsantéFast 10/100 PCI Rev B.Adapter.

- 1** Create a directory named `NWCLIENT` on your C drive.
- 2** Insert the Asante PCI Network Driver Disk into drive A and change to the subdirectory `NETWARE\NW4x\CLIENT`.
- 3** Copy the following files from the Driver Disk to the `NWCLIENT` directory on your C drive:
  - `LSL.COM`
  - `NET.CFG`
  - `L100.COM`
- 4** You will need to download the following files from Novell:  
`IPXODI.COM` and `NETX.COM`.
- 5** Check your `CONFIG.SYS` file to make sure that the following line appears:`DEVICE=C:\DOS\SETVER.EXE` assuming that `\DOS` is the directory where you have all your DOS files including `SETVER.EXE`.
- 6** Remove the Asante PCI Network Driver Disk from drive A.
- 7** Restart your computer.
- 8** To run NetWare, type the following four commands (in the following sequence) at the `C:\NWCLIENT` prompt:
  - `LSL`
  - `L100`
  - `IPXODI`
  - `NETX`

## Installing Network Specific Drivers

- 9 Change to the network drive (usually F) and log in to your network.

- △ **NOTE:** `NETX.EXE` (dated 930217) will work with DOS 6.0 or lower version only. You will need `NETX.EXE` (dated 931117) to work with DOS 6.22.
- △ **NOTE:** If you choose to use the Netware Client Install program, follow the instructions for Netware 4.x Client Installation document.
- △ **NOTE:** Remove the line `LASTDRIVE=Z` from your `CONFIG.SYS` file, if you use `NETX`. If you use `VLM` `LASTDRIVE=Z` is required in your `CONFIG.SYS` file.

### Settings for `SPEED` and `DUPLEX MODE` in `NET.CFG`

<code>AUTODETECT</code>		AutoDetect Linespeed,Media
<code>LINESPEED</code>	<code>10M_TP_FD</code>	10Mbps Full Duplex Mode.
<code>LINESPEED</code>	<code>100M_TX_FD</code>	100Mbps Full Duplex Mode.
<code>LINESPEED</code>	<code>10M_TP</code>	10Mbps Half Duplex Mode.
<code>LINESPEED</code>	<code>100M_TX</code>	100Mbps Half Duplex Mode.

## Installing Network Drivers

### Microsoft Windows for Workgroups v3.11

This section explains how to install the drivers to use the AsantéFast 10/100 PCI Rev B.Adapter with Windows for Workgroups 3.11

- 1 Start Windows for Workgroups.
- 2 From the Program Manager, double-click the **Network** group icon.
- 3 Double-click the **Network Setup** icon.
- 4 Click the **Networks...** button from the **Network Setup** window.
- 5 Select **Install Microsoft Windows Network** radio button.
- 6 Click the radio button for **No Additional network**.
- 7 Click the **OK** button or press Enter to get back to **Network Setup** window
- 8 Click the **Drivers...** button.
- 9 Click the **Add Adapter...** button.
- 10 Select **Unlisted or Updated Network Adapter** from the **Add Network Adapter** window.
- 11 Click the **OK** button. The **Install Driver** window appears.
- 12 Insert the Asante PCIAdapter Driver Disk into drive A.
- 13 Type the following in the text box:  
`A:\WFW`  
The text A:\ may already be provided for you.
- 14 Click the **OK** button or press Enter.  
The **Unlisted or Updated Network Adapter** window appears and **AsantéFast 10/100 PCI Rev B Adapter** is listed in the window.
- 15 Click the **OK** button to get back to the **Network Drivers** window.
- 16 Click the **Close** button to get back to **Network Setup** window.

## Installing Network Specific Drivers

- 17 Click the **OK** button to enter your User name, Workgroup and computerm name.
- 18 Click the **OK** button and **Yes To All** button on the Windows Setup window.
- 19 Follow onscreen instructions to finish the installation.  
A message window appears stating that Network Setup has modified `CONFIG.SYS`, `AUTOEXEC.BAT` and `SYSTEM.INI` files.
- 20 Click the **OK** button and restart the computer.

The following steps describe how to select the Connection Type for the AsantéFast 10/100 PCI Rev B.Adapter. These steps are optional and most users should use default settings.

- 1 Open **Network** group icon
- 2 Open **Network Setup** icon
- 3 Select **Drivers...**
- 4 Select **Setup...** will come up with another window with 3 options:

Media Mode:

AUTODETECT (Default) to automatically detect the connect type

TP\_10 for 10Base-T Half Duplex mode

TP\_10\_FD for 10Base-T Full-Duplex mode

TP\_100 for 100Base-T Half Duplex mode

TP\_100\_FD for 100Base-T Full-Duplex mode

Net Address (Default)

Slot number : the PCI slot where the AsantéFast adapter is installed.

## Installing Network Drivers

### Microsoft Windows NT Workstation v3.51

- 1** Boot your computer to Windows NT.
- 2** In the Program Manager Main window, double-click on the Control Panel icon.
- 3** Double-click on **Network**. The Network Settings dialog box appears.
- 4** Select **Add Adapter**.
- 5** Select **<Other> Requires disk from manufacturer**.
- 6** Select **Continue**.
- 7** Insert the driver disk when prompted to do so.
- 8** Type the directory **A:\WINNT351** .  
Click **OK**.
- 9** Select the **AsantéFast 10/100 PCI Rev B Adapter** .
- 10** Select Connection Type and Transmit Threshold size (TxThreshold). Most users should accept the default values. Click **OK** to confirm. For information about the driver parameters, see the **INSTALL.TXT** file on the driver installation disk.
- 11** Upon completion, the adapter name appears in the Installed Adapter Cards list of the Network Setting box.
- 12** Click on [**Close**] to complete the Network Setting initialization.
- 13** Reboot the system.

## Installing Network Specific Drivers

### Microsoft Windows NT Workstation v4.0

- 1** Boot your computer to Windows NT.
- 2** From **Start** menu choose **Settings** and select **Control Panel**.
- 3** Double-click on **Network**. The Network Settings dialog box appears.
- 4** Select **Adapters** from tab and click **Add...**
- 5** When the list of available network adapters appears, click on the **Have Disk** button.
- 6** Insert the driver disk into drive A. Type the directory **A:\WINNT40** into the box on your screen and press the **<Enter>** key.
- 7** Select the **AsantéFast 10/100 PCI Rev B. Adapter** and click **OK** button.
- 8** Click the **Close** button, then install the network protocols and services that you want. See your Microsoft Windows NT user guide(s) for more information. When you are finished, click on the **Close** button.
- 9** NT will ask you to choose a connection type and a Tx Threshold type. Most users should accept the default values. Click **OK** to confirm. For information about the driver parameters, see the **INSTALL.TXT** file on the driver installation disk.

## Installing Network Drivers

- 10** NT will copy the necessary network drivers to your computer. Upon completion, you will see a list of installed bindings. You can change the bindings settings as necessary if needed. Click on Next, then Next again to start the NT network.
- 11** Enter your computer's Computer Name and choose either Workgroup or Domain, depending on the type of network you are setting up. You may change the name of Workgroup or Domain that it will appear in. When you are finished, click on Next, followed by Finish.
- 12** Restart your computer.

## Microsoft Windows Windows 95/98

- 1** Start Windows 95 or Windows 98.
- 2** An **Update Device Driver Wizard** box appears.
- 3** Insert the **AsantéFast 10/100 PCI Rev B Driver Disk** and click on **NEXT**.
- 4** Windows found the following updated driver **AsantéFast 10/100 PCI Rev B Adapter** click on **FINISH**.
- 5** A box appears asking for the **AsantéFast 10/100 PCI Driver Disk**, click on **OK**.
- 6** In the **Copying files** dialog box type: **A:\**
- 7** Insert Windows 95 or Windows 98 CD when prompted.

## Installing Network Specific Drivers

### Power Macintosh Open Transport Driver

The Driver Disk includes Asanté's Open Transport PCI device driver for the Power Macintosh. Asanté's Open Transport driver supports AppleTalk and TCP/IP protocols simultaneously.

This section explains how to install the Open Transport driver for the adapter on your PCI-based Power Macintosh.

- ▲ **Important:** To use the Driver Disk on your Power Macintosh, make sure that you do not disable the System Extensions during power-up and that PC Exchange is enabled in the Extensions Manager.

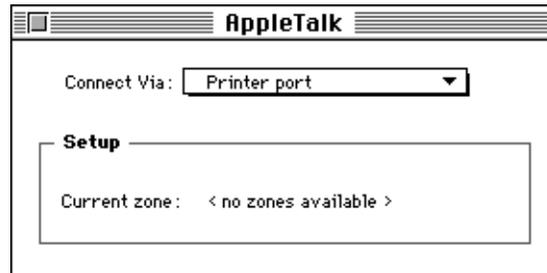
- 1 Insert the Asanté Driver Disk into the floppy drive and double-click the **AsantéFast Disk** icon.
- 2 Double-click on the **Power Macintosh** folder.
- 3 Double-click the **AsantéFast 10/100 PCI Rev B. Installer** icon and click **OK** when the Installer banner appears.
- 4 The Easy Install dialog box appears.
  - ▲ **Important:** To properly install the Open Transport driver, you must use the Installer program. Do not drag the files to the System Folder; doing so may not install the files properly.
- 5 Click the **Install** button.

The Installer program examines your Macintosh and installs the appropriate driver.
- 6 Click the **Restart** button when the message appears stating that the installation was successful.

After successfully installing the adapter and the driver, you need to configure the AppleTalk control panels on the Macintosh.
- 7 Select **Control Panels** from the Apple Menu.
- 8 Select **AppleTalk** from the Control Panels submenu.

## Installing Network Drivers

The AppleTalk control panel appears.



**9** Open the Connect Via: drop-down menu and select the Ethernet slot number where the adapter is installed.

**10** Close the AppleTalk control panel, then click **Save**.

△ **Note:** To verify the Ethernet connection, use the Chooser. This displays the availability of network printers, file servers, and/or shared disks, verifying that you are connected to the network. If you do not see network devices in the Chooser, check that at least one of the other network devices is powered on before assuming there's a problem with your Ethernet connection.

# 4

## Troubleshooting

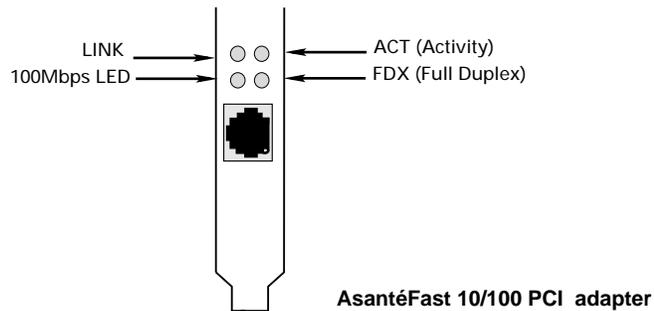
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### LED Indicators

#### Overview

The figure below shows the LED indicators that illustrate the presence of Link Integrity (LI), Data Traffic (TX), 100Mbps operation and Full Duplex operation for installation verification and diagnostic purposes.



## Troubleshooting

### Link LED

The green Link LED indicates a valid connection to the network. If link LED is not detected, there is a link failure and the LINK LED will be off. The ACT (activity) functions of the adapter also will be disabled.

State	Description
On	<ul style="list-style-type: none"><li>Indicates that the link pulse is established</li></ul>
Off	<ul style="list-style-type: none"><li>No unshielded twisted-pair cable is connected</li><li>No power source to hub/switch</li><li>Unshielded twisted-pair cable is faulty</li><li>Unshielded twisted-pair wire exceeds the recommended length</li></ul>

### ACT (Activity) LED

The green ACT (Activity) LED indicates the activity (transmit data) status of the adapter controller board. The LED should blink when data packets are being transmitted from the cable.

State	Description
Blinking	<ul style="list-style-type: none"><li>Data packets being transmitted</li></ul>
Off	<ul style="list-style-type: none"><li>Power off</li><li>No data packets being transmitted</li></ul>

### 100Mbps Operation LED

The green 100Mbps (100) LED indicates the configuration of the adapter for 100Mbps (100BASE-TX) operation.

State	Description
On	<ul style="list-style-type: none"><li>Configured for 100Mbps operation.</li></ul>
Off	<ul style="list-style-type: none"><li>Not configured for 100Mbps operation.</li></ul>

### FDX (Full Duplex) Operation LED

The green FDX (Full Duplex) LED indicates the configuration of the adapter for Full Duplex operation.

State	Description
On	<ul style="list-style-type: none"><li>Configured for Full Duplex Mode.</li></ul>
Off	<ul style="list-style-type: none"><li>Not configured for Full Duplex Mode.</li></ul>

## Troubleshooting

### Using the Diagnostic Program

The diagnostic program runs diagnostic tests to help you identify problems on the adapter and provides configuration information on your adapter.

#### PC Diagnostic Program

Run the diagnostic program only under DOS, not even DOS mode of Windows.

To run the diagnostic program on your PC follow the procedure below:

- 1 Boot up DOS.
- 2 Insert the Asanté Driver diskette.
- 3 At the DOS prompt type the following command:  
`A:\DIAG100`
- 4 Press Enter.
- 5 A screen appears displaying the following six (6) options:

**View** to display the following information about:

- Adapter type
- Ethernet Node address
- I/O Base
- IRQ
- PCI Controller revision
- PCI Controller identification
- PCI Slot number

**Diagnose** to test the adapter's:

- Register Access
- Serial ROM
- Interrupt Level
- Current media
- Internal loopback
- Pingpong test

## Using the Diagnostic Program

**Select** to choose one Adapter if you have multiple adapters in your PC.

**Help** explaining the purposes of the program.

**About** explaining about the Adapter itself.

**Exit** to exit the program.

### Power Macintosh Diagnostic Program

To run the diagnostic program on your Power Macintosh:

- 1 Open the Apple Menu and select **Control Panels**.
- 1 Select **AppleTalk** from the Control Panels submenu.  
The AppleTalk control panel appears.
- 2 Select **Printer port** from the Connect Via: drop-down menu.
- 3 Close the AppleTalk control panel, then click **Save** to save changes.
- 4 Insert the Asanté Driver Disk into the floppy drive and double-click the diskette icon to open it.
- 5 Double-click the **Power Macintosh** folder icon.
- 6 Double-click the **Utility Folder** icon.
- 7 Copy the **Asanté Troubleshooter for PCI** to your hard drive.
- 8 Double-click the **Asanté Troubleshooter for PCI** icon to start the program.
- 9 Click **OK** in the Troubleshooter start-up screen.  
The Troubleshooter loads and displays the main window with the following tests:
  - Loopback Test** — verifies the operation of the network interface circuitry and the adapter by transmitting and receiving special packets.
  - Ping-Pong Test** — verifies communication with another Macintosh on the network.
  - Bandwidth Utilization Test** — calculates the total bandwidth utilization of the network.
- 10 Click the checkboxes to select the Loopback Test, the Ping-Pong Test, and the Bandwidth Utilization Test.

## Troubleshooting

- 11 Click the highlighted slot number where the adapter is installed.
- 12 Click the **TEST** button to start the test sequence.  
If the Bandwidth Utilization Test is selected, press any key to stop packet collection.  
When the tests finish, the test results are displayed in the Troubleshooter window.
- 13 Verify the results to make sure that all tests passed.
  - ▲ If a test fails, check that the adapter is seated properly in a PCI slot or try installing the adapter in a different PCI slot and run the tests again.
- 14 Click **QUIT** in the Troubleshooter window or select **Quit** from the menu bar.
- 15 Open the Apple Menu and select **Control Panels**.
- 16 Select **AppleTalk** from the Control Panels submenu.  
The AppleTalk control panel appears.
- 17 Open the Connect Via: drop-down menu and select the Ethernet slot number where the adapter is installed.
- 18 Close the AppleTalk control panel.
- 19 Click **Save** to save changes.

## Asanté Driver Local Statistics (ADLS) Program

To run the Asanté Driver Local Statistics (ADLS) program on your Power Macintosh to display the configuration information on the adapter, follow the procedure below.

- 1 Insert the Asanté Driver Disk into the floppy drive and double-click the diskette icon to open it.
- 2 Double-click the **Power Macintosh** folder icon.
- 3 Double-click the **Utility Folder** icon.
- 4 Copy the **Asanté ADLS for PCI** to your hard drive.

## Using the Diagnostic Program

- 5 Double-click the **Asanté ADLS for PCI** icon to start the program. The ADLS window appears, displaying the following adapter configuration information: driver version, PCI slot number, adapter type, AppleTalk version, transmit status and receive status.
- 6 Verify the configuration information on the adapter.
- 7 Select **Quit** from the menu bar to close the ADLS program.



# A

## Specifications

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### AsantéFast 10/100 Adapter

#### Systems Supported

- PCI Local Bus PCs
- PCI-based Power Macintosh computers

#### Interface Connections

- Single RJ-45 (Using NWay to auto-negotiate 10BASE-T or 100BASE-TX operation)

#### Bus Supported

- PCI, 32-bit bus mastering

#### LAN Drivers Available

- PC: ODI and NDIS drivers
- PC: Windows NT, Windows for Workgroups, Windows 95/98
- Power Macintosh: Open Transport

#### LEDs

- 4 LEDs indicate link integrity, data traffic, 10 and 100Mbps operation, and Full Duplex operation
- 



## Specifications

### AsantéFast 10/100 Adapter

#### 100BASE-TX Link Specifications

- Cable: 2 pairs of Category 5 unshielded twisted-pair or shielded twisted-pair (ISO 11801 or ANSI/EIA/TIA 568A)
- Maximum Length: 100 m (328 ft.) computer to wiring closet. Maximum network diameter 205 m (672 ft.) without bridging or routing

#### Power Requirements

- +5 volts DC @ 0.8 Amp. maximum

#### Environmental Conditions

- Temperature: 0°C to 50°C
- Relative Humidity: 5% to 85% non-condensing

#### Standards Compliance

- IEEE 802.3u 100BASE-TX
  - IEEE 802.3 10BASE-T
  - PCI 2.0 specifications
  - FCC Part 15 Class B
  - CE Class B
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# B

## Technical Support

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### Contacting Technical Support

#### To contact Asanté Technical Support:

Telephone	(800) 622-7464
Fax	(801) 566-3787
Bulletin Board Service (BBS)	(408) 432-1416
FTP Archive	<a href="ftp.asante.com">ftp.asante.com</a>
Internet Mail	<a href="mailto:support@asante.com">support@asante.com</a>
WorldWide Web Site	<a href="http://www.asante.com">http://www.asante.com</a>

#### Technical Support Hours

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









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