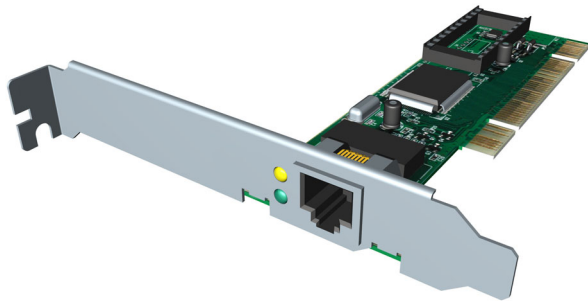


# iPAQ Networking 10/100 Fast Ethernet PCI Card



## Installation and Setup Guide

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iPAQ Networking 10/100 Fast Ethernet PCI Card  
Installation and Setup Guide  
First Edition (June 2001)

# Contents

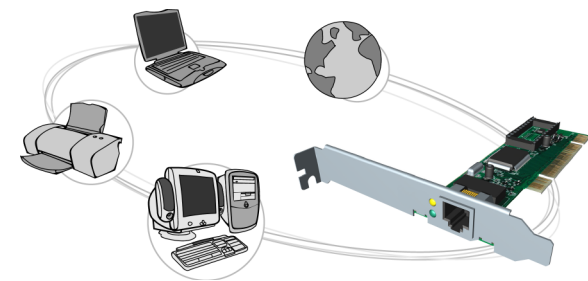
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# Introduction

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Welcome to iPAQ Networking! Thank you for your purchase of the iPAQ Networking 10/100 Fast Ethernet PCI Card. The Compaq family of iPAQ Networking products will help you simplify your life and connect your world. With iPAQ Networking, you can connect all of your PCs for simultaneous access to files, printers, peripheral devices, and the Internet!



This guide is designed to help you:

- > Get acquainted with the features of your new Ethernet PCI Card
- > Install the product correctly
- > Locate technical specifications, customer service information, and troubleshooting
- > Learn how to use your network

# Features and Benefits

The iPAQ Networking 10/100 Fast Ethernet PCI Card, when used with an Ethernet hub, switch, or router (sold separately), connects your PC to your network quickly and easily. Key product features and benefits are listed below.

<i>Features</i>	<i>Benefits</i>
High Performance Networking	Your Ethernet PCI Card works in either 10Mbps or 100Mbps environments. Your card's Auto Negotiation feature and RJ-45 port automatically detect a 10Base-T or 100Base-TX network and adjust to half or full duplex speeds of up to 200Mbps.
Wake on LAN	Supports Wake on LAN and remote wake up with Magic packet, Link Change, and Microsoft® wake-up frame.
Easy to Set Up and Use	iPAQ Networking solutions come with easy-to-follow instructions and intelligent software that guides you through the installation process. You can easily set up your network to share Internet access, share files and printers, or play the latest multi-player PC games.
Advanced Bridging Technology	Even if you have a combination of Ethernet, wireless, or phone line products in your networking environment, the iPAQ Networking software has the power to bring them together, or create a bridge, so they can operate as one integrated network.
Internet Access Sharing	iPAQ Networking allows you to share a single Internet account and let more than one computer use it at the same time! Simultaneous Web surfing works with cable and DSL high-speed Internet access as well as with standard dial-up.

<i>Features</i>	<i>Benefits</i>
Printer and Device Sharing	Share devices connected to one computer with other computers on the network. You can share printers, scanners, Zip drives, and CD-ROMs.
File Sharing	Move or copy files between all of your networked PCs quickly and easily.
Multi-Player Gaming	Play real-time multi-player games with anyone on the network. When you make a move or score points, the other player sees the action on his connected PC live!
Digital Music and Picture Sharing	Play digital music and view pictures from anywhere on your network.

## What's in the Box?

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- > **iPAQ Networking 10/100 Fast Ethernet PCI Card.** This is the device that links your PC to the network.
- > **Quick Setup Guide.** Easy-to-follow images and step-by-step instructions help you quickly install the product.
- > **iPAQ Networking CD.** This CD contains Internet sharing and networking software, user and troubleshooting guides, and hardware drivers.
- > **Warranty card.** This card explains the iPAQ Networking standard warranty.

## What Else Do I Need?

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To use the iPAQ Networking 10/100 Fast Ethernet PCI Card, you need a PC with the following components:

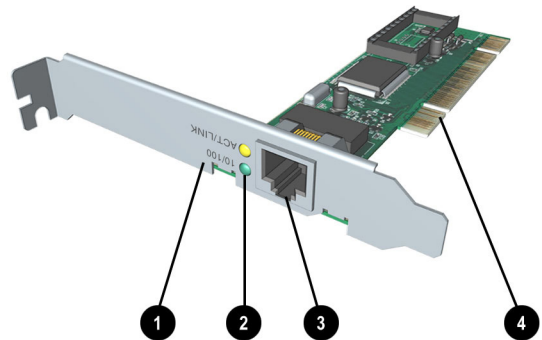
- > Intel® Pentium processor or higher
- > An empty PCI card slot
- > At least 24MB of RAM
- > Microsoft® Windows® 98, 98SE, ME, or 2000

**Note:** This Ethernet PCI Card provides the hardware you need to install networking capabilities on a single PC. A complete Ethernet network requires a local hub, switch, or router, such as the iPAQ Networking 10/100 Fast Ethernet 5-Port Auto Sensing Switch. This additional device provides a central connection point for all computers.

**Note:** You will also need a twisted-pair Ethernet cable with an RJ-45 jack (purchased separately) to connect your computer to the network. This type of cable is commonly available at computer stores. The maximum desired cable length is 100 meters (328 feet). Use Category 3, 4, or 5 cable for connection to 10 Mbps Ethernet, or Category 5 cable for connections to 100 Mbps Fast Ethernet.

# Examining the Product

Before installing the product, familiarize yourself with the iPAQ Networking 10/100 Fast Ethernet PCI Card.



**Note:** Before picking up your Ethernet PCI Card, touch the metal housing of the PC to discharge any static electricity in your hands.

- ① **Face plate** is outside of the PC and lets you connect network cables and view the LED.
- ② **LED lights** show system status. Amber indicates normal network connection; flashes during data transmission. Green indicates transmitting at optimum network speed.
- ③ **Cable jack** provides a place to connect the RJ-45 cable.
- ④ **Bus connector** slides directly into the available PCI slot inside your PC.

# Installing the Product

## Overview

Installing the product involves several steps:

- > **Install drivers**
- > **Install Ethernet PCI Card**
- > **Connect Ethernet PCI Card to the network**
- > **Install iPAQ Networking software**

The following pages contain step-by-step procedures for each item on this checklist.

## Installing the Drivers

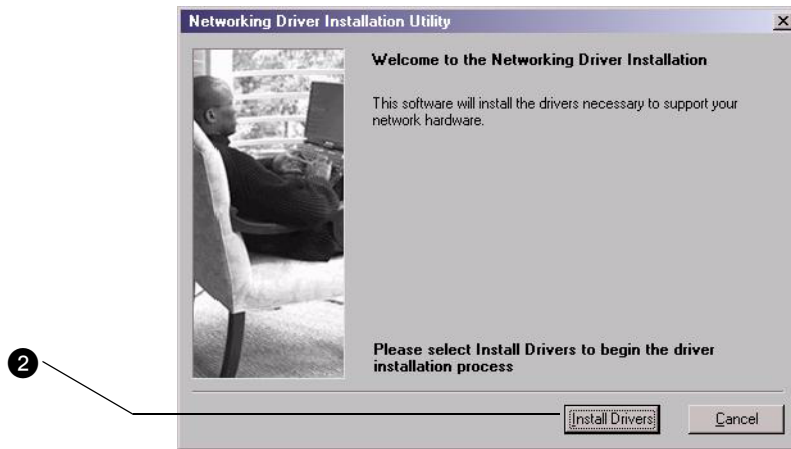
1. Insert the **iPAQ Networking CD** into the CD-ROM. The iPAQ Networking menu should display automatically.



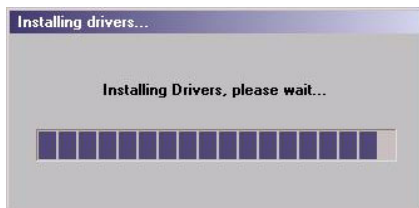
**Note:** If the menu does not appear, select the **Start** button and choose **Run**. Type in "**D:\setup.exe**" where "D:\\" is the location of your CD ROM drive. Then click **OK** to start the iPAQ Networking menu.

2. Click **Install Drivers** ❶ to start the driver installation software.

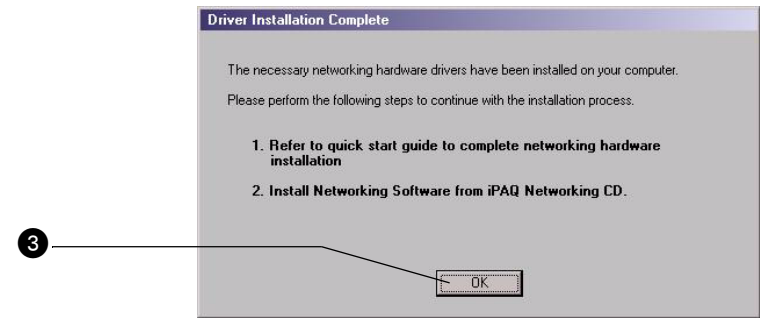
The opening panel of the Network Driver Installation Utility is displayed.



3. Click **Install Drivers** in this panel to start installing the drivers. ❷  
A progress indicator is displayed while the files are being installed.



4. When installation is complete, the Driver Installation Complete window is displayed. Click **OK** ❸ to complete the installation.

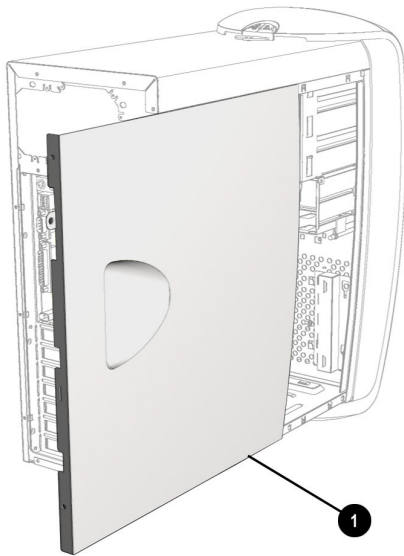


Complete the hardware installation before proceeding with software installation.

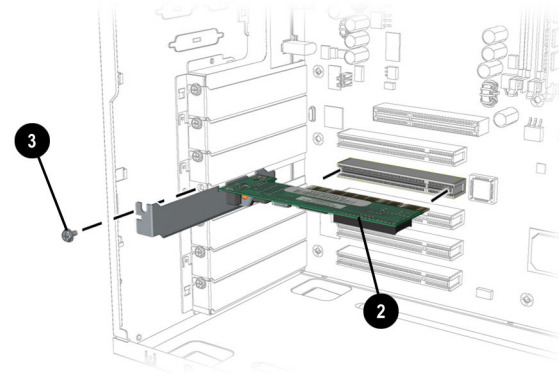
## Installing the Ethernet PCI Card

The iPAQ Networking 10/100 Fast Ethernet PCI Card is made to fit into any available PCI slot inside your PC. Please follow the steps below to install.

1. Turn off your PC and disconnect the power cable to avoid electrical shock.
2. Before picking up the PCI Card, touch the metal housing of the PC to discharge any static electricity in your hands.
3. Remove the computer housing **1** from your PC to expose the internal circuitry. Refer to your PC user guide for instructions on opening the case.



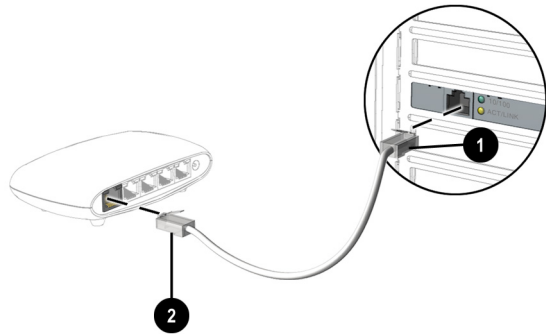
4. Select a blank PCI slot and then remove the screw **3** and cover plate. Refer to your PC user guide for instructions.



5. Pick up your Ethernet PCI Card and insert it into the empty PCI slot. **2**
6. Reattach the screw **3** as needed to fasten the card to the chassis.
7. Close the case on the PC and reattach the power cable. Refer to your PC user guide for more detailed instructions on closing the case.

## Connecting the Product

Now that you've installed your Ethernet PCI Card, follow these steps to connect it to your network.



1. Connect one end of the standard Ethernet cable (not included) to the RJ-45 connector on the card. ❶
2. Connect the other end of the cable to a hub, switch, or router (purchased separately) that acts as the central connection point for all computers on your network. ❷

## Making It Work

1. Turn on your PC.
2. Wait for the operating system to start up. The system will automatically detect the presence of your PCI Card.

## Installing the Software

When you are finished installing the drivers and hardware, you are now ready to install the iPAQ Networking software. Please refer to the [Software Documentation](#) on this CD.

## Technical Specifications

Model	HNE-100
Bus Type	32-Bit PCI
Port	(1) RJ-45, auto senses 10/100 speeds and full/half duplex
LED	Amber (normal network connection) Flashing (data transmission) Green (transmitting at optimum network speed).
Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3X, PCI 2.2, APCI, ANSI X3T12 TP-PMD
Wake on LAN (WOL)	Supports Wake on LAN and remote wake up with Magic packet, Link Change, and Microsoft® wake up frame.
Certifications	FCC Part 15B, CE
Access Method	CSMA/CD
Cable	10Base-T Category 3 or better 100Base-TX Category 5 or better
Connector	UTP RJ-45 phone jack connector
Date Rate:	Full Duplex 20Mbps or 200Mbps Half Duplex 10Mbps or 100Mbps
Transmit/Receive Buffer Memory	2KB transmit FIFO, 2KB receive FIFO
Dimensions:	4.72" x 1.46" (120mm x 37mm) Non-bracket
Driver Support	Microsoft® Windows® 98, 98SE, Millennium, 2000
Humidity	20%-90% relative humidity



Network Interface	IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX
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Power Input	+3.3 volts +/- 5%
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Temperature	Operating: 0°C~50°C Storage: 20°C~70°C
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## For More Information

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All the information you need to get your network up and running is on this CD. To learn more about Compaq's other networking products, or if you need additional information regarding components or technology, the Compaq website at [compaq.com/athome](http://compaq.com/athome) features a variety of resources. Here's where you can find other sources of information:

### Registration

You can register your new product online at the Compaq website [compaq.com/register](http://compaq.com/register).

### Troubleshooting

If you have problems with your Ethernet PCI Card, check the [Troubleshooting Guide](#) on this CD for quick resolution to the most common situations.

### Glossary

A [Glossary](#) on this CD provides a brief list of commonly used technical terms and their definitions.

### Technical Support

If you have a networking problem not addressed in the [Troubleshooting Guide](#) on this CD, Compaq offers technical support online at [compaq.com/consumersupport](http://compaq.com/consumersupport). You can also call 888-302-7358.

# Regulatory Compliance

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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 separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

## Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Compaq Computer Corporation may void the user's authority to operate the equipment.

## Declaration of Conformity for products marked with the FCC logo - United States only

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

*For questions regarding this product*, contact:  
Compaq Computer Corporation  
P. O. Box 692000, Mail Stop 530113  
Houston, Texas 77269-2000  
Or, call 1-800-652-6672 (1-800-OK COMPAQ)

*For questions regarding this FCC declaration*, contact:  
Compaq Computer Corporation  
P. O. Box 692000, Mail Stop 510101  
Houston, Texas 77269-2000  
Or, call (281) 514-3333

*To identify this product*, refer to the part, series, or model number found on the product.