



Mac mini

User's Guide

Includes setup and
troubleshooting information
for your Mac mini computer



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Contents

7 Chapter 1: Getting Started

- 8 Setting Up Your Mac mini
- 13 What's Next?
- 15 What to Do When You Have Finished Using Your Mac mini

17 Chapter 2: Getting to Know Your Mac mini

- 18 Basic Features of Your Mac mini
- 20 Learning About Mac OS X
- 22 Customizing Your Desktop and Setting Your Preferences
- 23 Connecting to a Printer
- 25 Playing a CD and Connecting Headphones
- 25 Keeping Your Software Up to Date
- 26 Connecting a Camera or Other FireWire Device
- 26 Connecting to a Network
- 27 Using the Internet
- 27 Transferring Files to Another Computer
- 28 When an Application Freezes
- 29 Getting Answers to Your Questions Using Mac OS Help

30 Using Applications

31 **Chapter 3: Using Your Computer**

32 Connecting a Display or Video Device

33 Universal Serial Bus (USB)

35 FireWire

37 AirPort Extreme Wireless Internet and Networking

39 Bluetooth Wireless Technology

43 Ethernet (10/100Base-T)

44 Audio Support

45 Using Your Optical Drive

48 Securing Your Computer

49 **Chapter 4: Troubleshooting**

50 Problems That Prevent You From Using Your Computer

51 Reinstalling the Software That Came With Your Computer

53 Other Problems

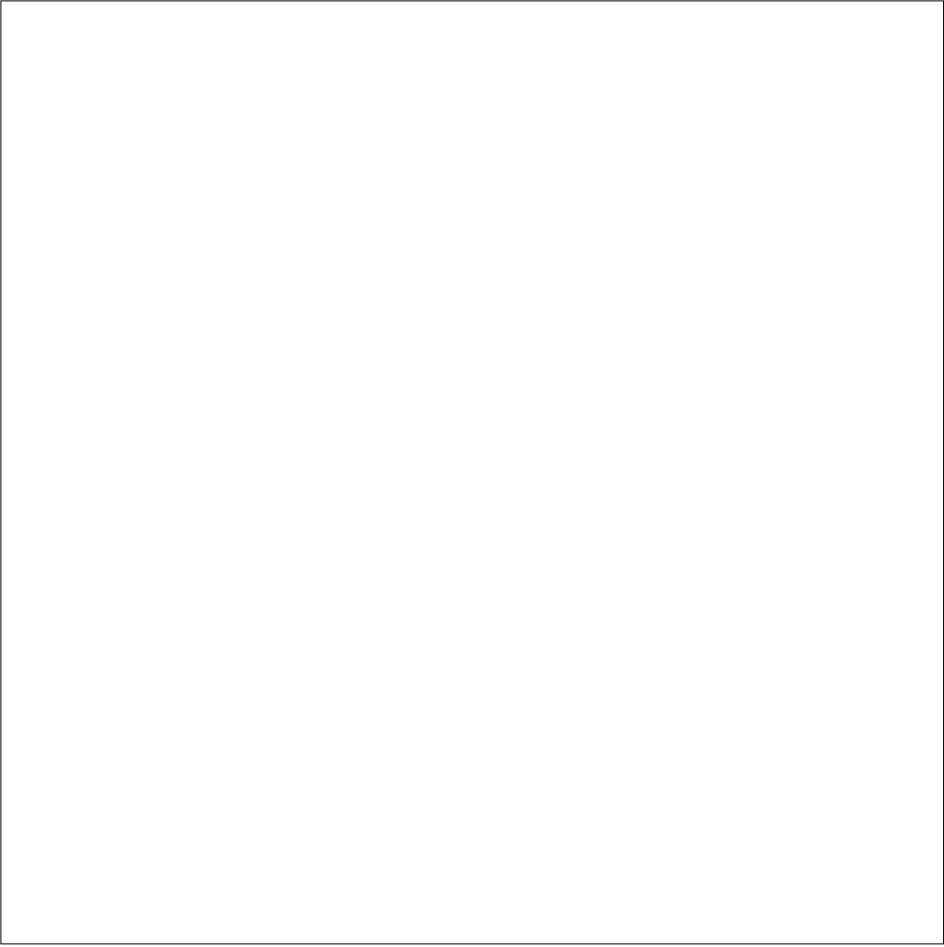
56 Using Apple Hardware Test

56 Learning More, Service, And Support

58 Locating Your Product Serial Number

59 **Appendix A: Specifications**

61	Appendix B: Care, Use, and Safety Information
61	Cleaning Your Mac mini
61	Moving Your Mac mini
62	Safety Instructions for Setting Up and Using Your Computer
63	Connectors and Ports
63	Power Adapter
64	Avoid Hearing Damage
65	Ergonomics
67	Apple and the Environment
69	Appendix C: Connecting to the Internet
72	Setup Assistant Worksheet
75	Setting Up Your Internet Connection Manually
75	Dial-Up Connection
79	DSL, Cable Modem, or LAN Internet Connections
87	AirPort Extreme Wireless Connection
91	Troubleshooting Your Connection
95	Communications Regulation Information
103	Index



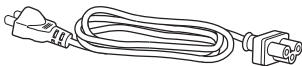
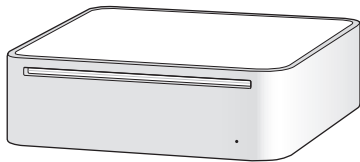
Getting Started

1

Your Mac mini has been designed so that you can easily set it up and start using it right away.

If you have never used Mac mini or are new to Macintosh computers, read this section for instructions on getting started. If you are an experienced user, you may already know enough to get started.

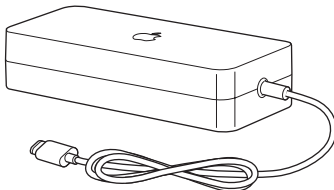
Be sure to look over the information in Chapter 2, “Getting to Know Your Mac mini,” to find out about the features of your Mac mini.



AC cord



DVI to VGA
Adapter

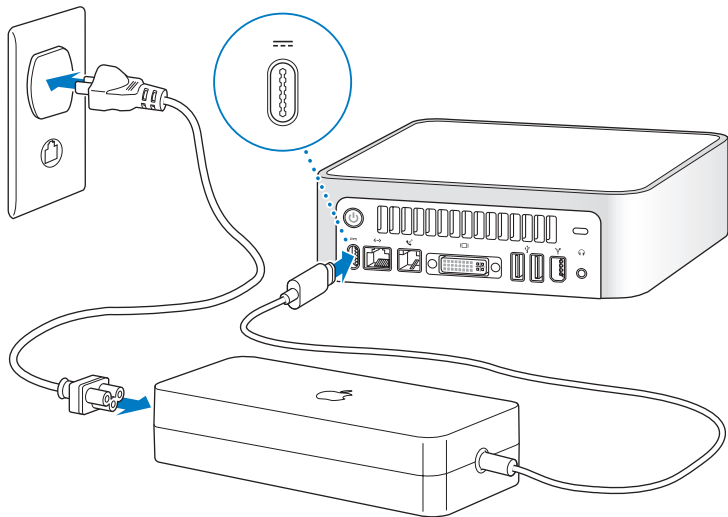


Power adapter

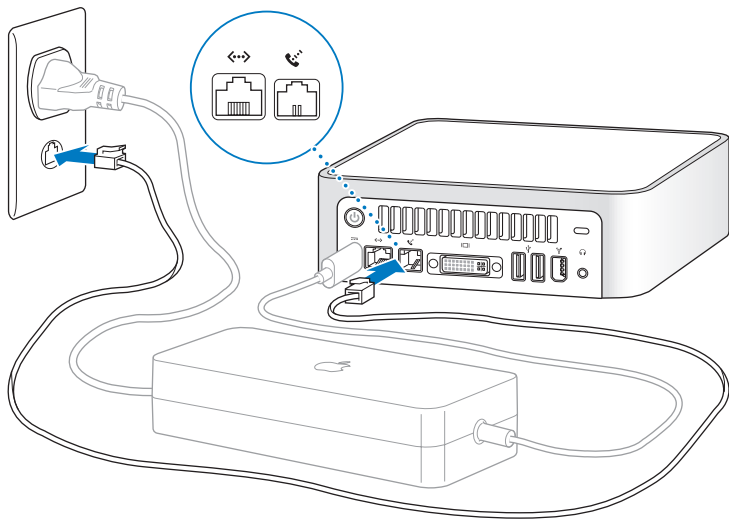
Setting Up Your Mac mini

Follow these steps to set up your Mac mini. If there is any protective film around the computer or power adapter, remove it before setting up your Mac mini.

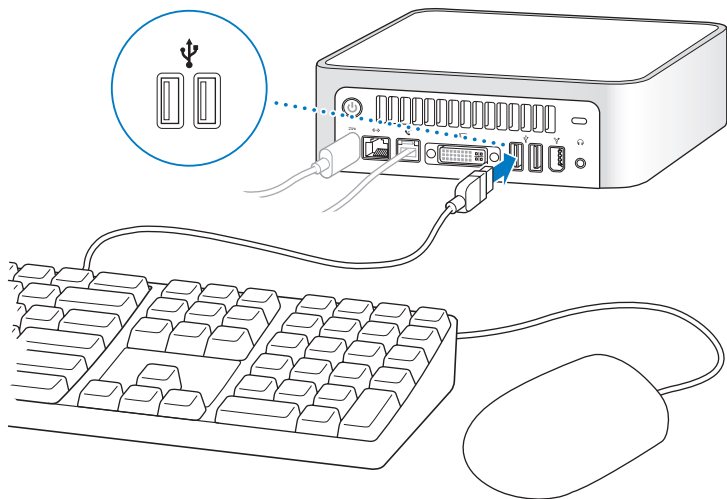
- 1 Plug the AC cord firmly into the power adapter. Plug the cord from the power adapter into the computer. Plug the power adapter into a grounded power outlet.



2 To access the Internet, connect an Ethernet cable or phone cord.



3 Connect the USB cable from your keyboard and mouse.

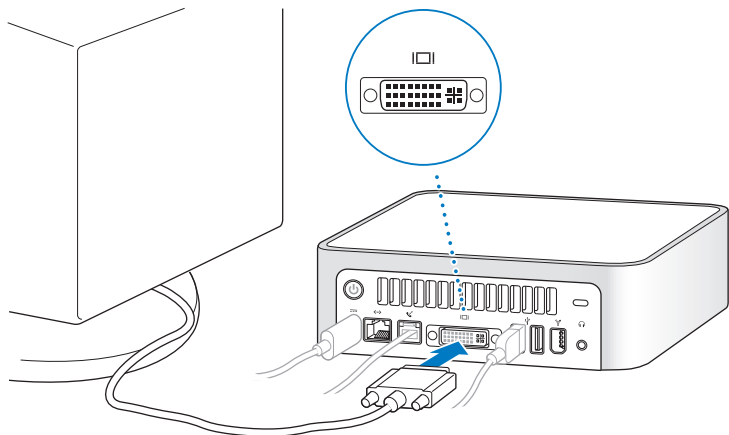


Your Mac mini does not come with a keyboard and mouse, but you can use any USB keyboard or mouse with your computer. If your keyboard has a USB port, you can plug your mouse into the USB port on the keyboard. If it doesn't, you can plug the mouse into a USB port on the back of the computer.

Note: Using a USB mouse or keyboard from another manufacturer may require software drivers. Check the manufacturer's website for the latest software drivers.

To set up an Apple Wireless Keyboard and Apple Wireless Mouse with your computer, follow the instructions that came with the keyboard and mouse.

- 4 Connect the DVI cable from your display to the video out port. To connect a VGA display, use the Apple DVI to VGA Adapter that came with your computer. For more information about connecting a display, see the guidelines in Chapter 2, “Getting to Know Your Mac mini.”



Important: Don't place anything on top of your Mac mini. Objects placed on top may cause interference with the optical drive or with the AirPort or Bluetooth® wireless signal, if you have the optional AirPort Extreme Card or Bluetooth module installed.

What's Next?

You've done everything you need to get your Mac mini up and running. The first time you turn on your computer, the Setup Assistant starts and helps you enter your Internet and email information and set up a user on your computer. If you already have a Mac, the Setup Assistant can help you automatically transfer files, applications, and other information from your previous Mac to your new Mac mini.

Transferring Information to Your Mac mini

You can use the Setup Assistant to automatically transfer information from another Mac to your new Mac mini. To transfer information, make sure of the following:

- Your other Mac must have built-in FireWire and support FireWire Target Disk Mode.
- Your other Mac must have Mac OS X v10.1 or later installed.
- You must have a FireWire cable to connect the two computers.

The Setup Assistant takes you through the process of transferring your information—just follow the onscreen instructions. Transferring information to your Mac mini does not affect the information on your other Mac. Using the Setup Assistant, you can transfer:

- User accounts, including preferences and email
- Network settings, so your new computer is automatically set up to work with the same network settings as your other Mac
- Applications folder so that the applications you used on your other Mac are now on your new Mac mini (you may have to reinstall some of the applications you transfer)
- Files and folders on the hard disk and partitions. This gives you easy access to the files and folders you used on your old Mac.

You may want to deauthorize your old Mac to prevent your iTunes Music Store or spoken word purchases from being played or to change which computers are authorized to play your purchases. For more information, choose Help > Mac Help, then choose Library > iTunes and Music Store Help, and search for “deauthorize.”

If you don't use the Setup Assistant to transfer information when you first start up your Mac mini, you can do it later. Go to the Applications folder, open Utilities, and double-click the Setup Assistant icon.

Setting Up Your Mac mini for the Internet

If you didn't transfer your network settings, the Setup Assistant can also take you through the process of setting up your computer to connect to the Internet. For home users, Internet access requires an account with an Internet service provider (ISP). Fees may apply.

- If you don't already have an Internet account, the assistant can set you up with one.
- If you already have an Internet account, see Appendix C, “Connecting to the Internet,” on page 69 for information you'll need to enter.

What to Do When You Have Finished Using Your Mac mini

When you have finished working with your Mac mini, you have two options.

Put Your Mac mini to Sleep to Save Energy

If you will be away from your Mac mini for less than a few days, put the computer to sleep. When the computer is in sleep, its screen is dark. You can quickly wake the computer and bypass the startup process.

To put the computer to sleep quickly, do one of the following:

- Choose Apple () > Sleep.
- Press the power button on the back of the computer.
- Choose Apple () > System Preferences, click Energy Saver, and set a sleep timer.

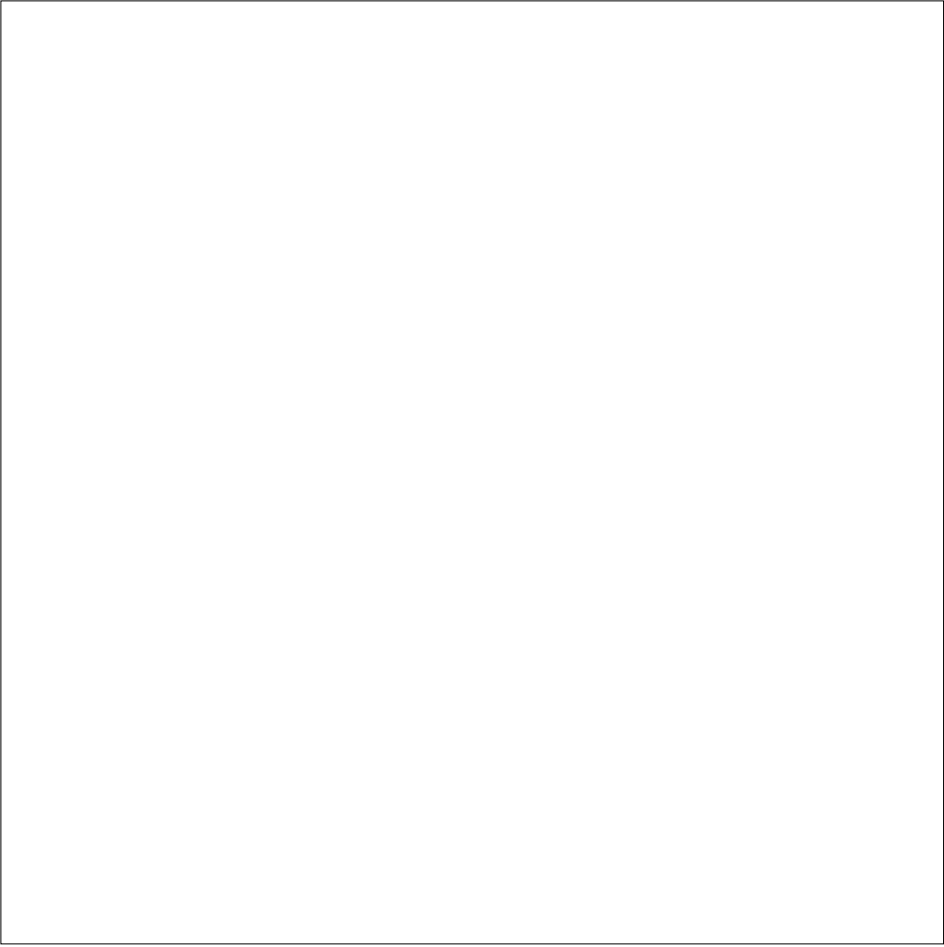
To wake the computer, press any key on the keyboard. When the computer wakes from sleep, your applications, documents, and computer settings are exactly as you left them.

Shut Down Your Mac mini

If you will not use your Mac mini for more than a few days, shut it down.

- Choose Apple () > Shut Down.

Warning: Shut down your Mac mini before moving it. Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data or the inability to start up from the hard disk.



Getting to Know Your Mac mini

2

This chapter gives you some basic information you'll need to know about your Mac mini.

Read on for an overview of the different parts of your computer and Mac OS X, and summary information on common tasks such as customizing the way your desktop looks, connecting to a printer, playing a CD, connecting a digital camera, using the Internet, getting answers when you need help, and more.

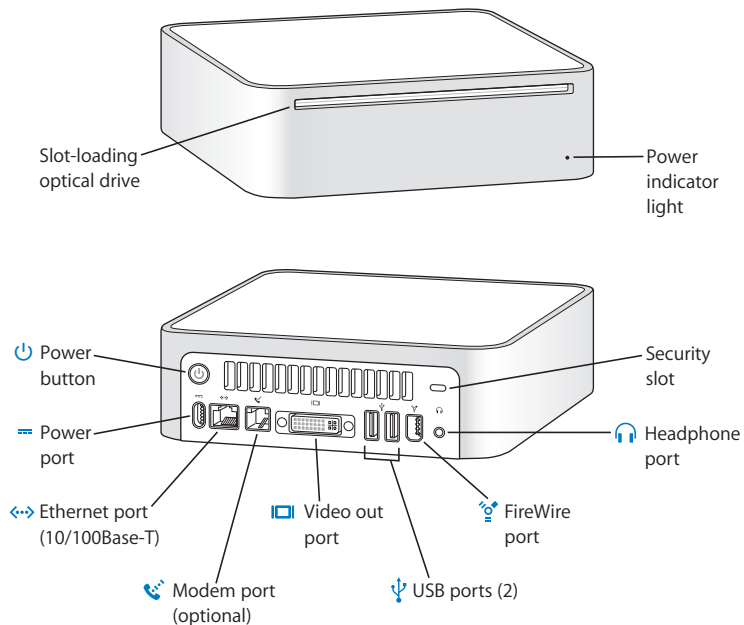
For the Latest Information

Because Apple frequently releases new versions and updates to its system software, images shown in this book may be slightly different from what you see on your screen.

The Apple website, at www.apple.com, links you to the latest Apple news, free downloads, and online catalogs of software and hardware for your Mac mini.

You can also find the manuals for many Apple products and technical support for all of Apple's products on the Service and Support website at www.apple.com/support.

Basic Features of Your Mac mini



Slot-loading optical drive

Your computer has a Combo drive that can read DVD discs, DVD movies, CD-ROM discs, photo CDs, music CDs, standard audio discs, and other kinds of media. It can also write music, documents, and other digital files to blank CD-R and CD-RW discs

Power indicator light

A white light indicates your Mac mini is on; a pulsing light indicates it's in sleep



Power button

Turn on your Mac mini or put it to sleep. Press and hold to reset during troubleshooting.



Power port

Connect the power cord from the power adapter.



Ethernet port (10/100Base-T)

Connect to a 10/100Base-T Ethernet network or connect a DSL or cable modem.



Modem port (on some models)

Connect a standard phone line directly to the internal 56K v.92 modem.



Video out port

Connect displays that use a DVI connector. You can also connect displays that use a VGA connector using the DVI to VGA Adapter that came with your computer.



USB (Universal Serial Bus) 2.0 ports

Connect USB devices such as mice, keyboards, printers, scanners, powered speakers, USB microphones, USB hubs, Zip and other disk drives, digital cameras, joysticks, and more.



FireWire 400 port

Connect high-speed external devices, such as an iPod, iSight camera, digital video cameras, or external storage devices.



Headphone port

Connect headphones or other sound output devices, such as external powered speakers.



Security slot

Attach a lock and cable to discourage theft (available at www.apple.com/store).

Learning About Mac OS X

Your computer comes with Mac OS X, which includes an elegant user interface, advanced graphics capabilities, and added system stability and performance.



When you're ready to learn more about Mac OS X and the award-winning iLife applications that came with your computer, see the *Welcome to Panther* booklet located in the User Guides and Information folder on your hard disk. You can also open Mac OS Help and browse the information there. You'll find plenty of information for new users, experienced users, and people switching to the Mac.

If you experience any problems while using Mac OS X, see the troubleshooting tips in the back of this book or choose Help > Mac Help from the menu bar at the top of the screen. For information about the compatibility of software applications with Mac OS X, or to read more about Mac OS X, check the Apple website: www.apple.com/macosx.

Note: If you want to use Mac OS 9 applications with your computer, you have to install Mac OS 9 (see “Installing Mac OS 9” on page 53). Mac OS 9 can't be installed as the primary operating system on your Mac mini and you can't start up your computer in Mac OS 9. You can open and use Mac OS 9 applications in the Mac OS X Classic environment.

Customizing Your Desktop and Setting Your Preferences

You can quickly make your desktop look the way you want using System Preferences. Choose Apple (🍏) > System Preferences from the menu bar.



Feel free to make changes and experiment with the following:

- **Desktop & Screen Saver:** Select this preference pane to change the background color or pattern of your desktop, or change it to a photo or image you like. You can also choose an eye-catching screen effect that will appear on your screen when the computer is left idle.

- **Dock:** Select this preference pane to change the look, location, and behavior of your Dock.
- **Appearance:** Select this preference pane to change the colors of buttons, menus, windows, and highlight colors, among other options.

As you get to know your computer, explore the other System Preferences. It is your command center for most settings on your Mac mini. For more information, open Mac OS Help and search for “System Preferences” or for the specific preference you want to change.

Connecting to a Printer

The drivers for most printers are built into Mac OS X. To use a printer with your Mac mini, follow the instructions that came with the printer to install any required software and connect the printer to your computer.

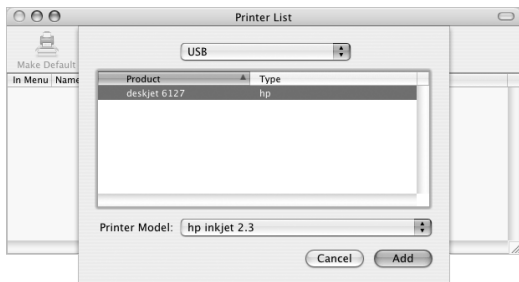
After connecting your printer, use the Print & Fax pane of System Preferences to select your printer for use.

Note: If you have an AirPort Extreme Card installed in your Mac mini and you have an AirPort Extreme Base Station or AirPort Express, you can connect a USB printer to the base station (instead of connecting it to your computer) and print wirelessly.

To set up a printer:

- 1 Open System Preferences and click the Print & Fax icon.
- 2 Click the Set Up Printers button.

- 3 Click the Add button.
- 4 Choose the type of connection for your printer (USB or Rendezvous in most cases).



To add a USB printer connected to an AirPort Extreme Base Station or AirPort Express, choose Rendezvous from the pop-up menu.

- 5 Select or enter your printer information and click Add.

Note: If you're connecting to a printer via a network, you may need to know the network name or address of the printer to select it. Ask your network administrator.

Monitoring Printing

Once you've sent a document to a printer, you can monitor, stop, or put printing temporarily on hold.

To monitor printing:

- Click the printer icon in the Dock to open the printer window.

You can now see the print jobs in the print queue and work with them. For more information, open Mac OS Help (see page 30) and search for “printing.”

Playing a CD and Connecting Headphones

If you'd like to listen to music with your Mac mini, insert a music CD in your optical drive. iTunes, an easy-to-use music player, opens automatically. You can connect headphones with a mini-jack to the headphone port of your Mac mini to listen privately.

You can also connect powered speakers to the headphone port to listen to music. If you have an AirPort Extreme Card installed and an AirPort Express, you can wirelessly stream music from your Mac mini to your home stereo system.

To learn more about iTunes:

- Open iTunes and choose Help > iTunes and Music Store Help.

To learn more about your optical drive, see “Using Your Optical Drive” on page 45.

Keeping Your Software Up to Date

You can connect to the Internet and automatically download and install the latest free software versions, drivers, and other enhancements from Apple.

When you are connected to the Internet, Software Update checks Apple's servers to see if any updates are available for your computer. You can set your Mac mini to check the Apple server periodically and download and install updated software.

To check for updated software:

- 1 Choose Apple (🍏) > Software Update. The Software Update window opens. If there are any updates available, they appear in a list.
- 2 Click the checkbox to select the items you want to install, then click Install. Type an administrator name and password (the name and password you used when you first set up your computer).

When the updates complete, Software Update checks for updates again. It does this because some updates require that you have installed previous updates. For more information, search for “Software Update” in Mac OS Help (see page 29).

Connecting a Camera or Other FireWire Device

If you have an iPod, iSight camera, FireWire digital video camera, or other device that has a FireWire connector, you can connect it to your Mac mini. Follow the installation instructions that came with your device. For more information about FireWire, see “FireWire” on page 35.

Connecting to a Network

If you want to connect your Mac mini to an Ethernet network, cable or DSL modem, or a wireless network, see “Ethernet (10/100Base-T)” on page 43 and “AirPort Extreme Wireless Internet and Networking” on page 37 for more information about setting up an Ethernet or AirPort connection. Also open Mac OS Help (see page 30) and search for “Ethernet” or “AirPort” for further help.

Using the Internet

When you first set up your Mac mini, you were instructed on how to connect to the Internet. If you need to change to a different type of connection, such as a DSL or cable modem, Ethernet local area network (LAN), or AirPort Extreme network, you can find more information in Appendix C, “Connecting to the Internet,” on page 69.

Transferring Files to Another Computer

You have several ways to transfer files or documents to or from your Mac mini.

- You can easily transfer files using the Setup Assistant. For more information, see “Transferring Information to Your Mac mini” on page 13.
- You can transfer files via the Internet using .Mac or another Internet account. Go to www.mac.com for more information.
- If your computer is connected to an Ethernet network, you can transfer files to another computer on the network. To access another server or computer, open a Finder window and click Network. Or if you know the name or network address of the computer, choose Go > Connect to Server from the Finder menu bar.
- You can create a small Ethernet network by connecting an Ethernet cable from your Mac mini to another computer’s Ethernet port. For more information, open Mac OS Help and search for “Connecting two computers.”
- You can also connect to another Mac using a FireWire cable. Your Mac mini appears as a disk drive on the other computer and you can transfer files. For information about using FireWire to transfer files, open Mac OS Help (see page 29) and search for “FireWire target.”

- If your computer has an AirPort Extreme Card, you can connect to an AirPort wireless network to transfer files. For more information, see “AirPort Extreme Wireless Internet and Networking” on page 37.

For more information about transferring files and documents, open Mac OS Help (see page 29) and search for “transferring files.”

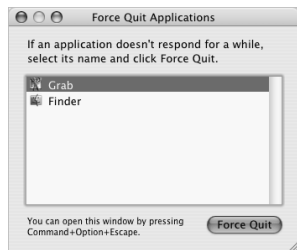
When an Application Freezes

On rare occasions, an application may freeze on the screen. Mac OS X provides a way to quit a frozen application without restarting your computer. Quitting a frozen application may allow you to save your work in other open applications.

To force an application to quit:

- 1 Press Command (⌘)-Option-Esc.

The Force Quit Applications dialog appears with the application selected.



2 Click Force Quit.

The application quits, leaving all other applications open.

If needed, you can force the Classic environment to quit, which closes all Classic applications. You can also restart the Finder from this dialog.

If you are experiencing other problems, see Chapter 4, “Troubleshooting,” on page 49.

Getting Answers to Your Questions Using Mac OS Help

You can find answers to most of your questions about using your computer and Mac OS X in Mac OS Help.



To use Mac OS Help:

- 1 Click the Finder icon in the Dock.
- 2 Choose Help > Mac Help (click the Help menu and choose Mac Help).
- 3 Type a question and press the Return key on your keyboard.
- 4 Double-click an item in the list of Help topics.

Using Applications

Your Mac mini comes with software applications, including the iLife suite of applications, for doing things like sending email, surfing the Internet, chatting online, organizing music and digital photos, making movies, and much more. For more information on these applications, see the *Welcome to Panther* booklet located in the User Guides and Information folder on your hard disk.

Your Mac mini has many built-in features you can use to customize your computer to fit your needs.

Here are some of your computer's features and capabilities:

- High-speed Universal Serial Bus (USB) 2.0 ports for connecting additional equipment, such as printers, scanners, joysticks, keyboards, digital cameras, and disk drives.
- FireWire port for connecting high-speed equipment, such as an iPod, iSight camera, digital video cameras, and external hard disks.
- Optional Bluetooth® module for connecting wirelessly to digital devices, such as an Apple Wireless Keyboard or Apple Wireless Mouse.
- Communications technologies, such as a 56K v.92 modem (on some models), 10/100Base-T Ethernet, and optional AirPort Extreme wireless networking.
- Headphone port to connect headphones, powered speakers, or audio equipment.

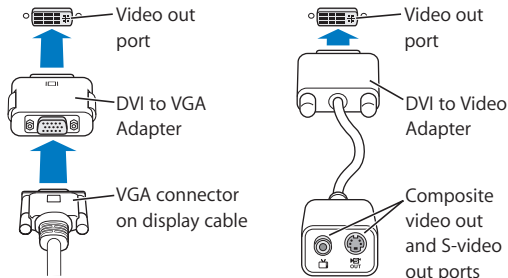
To learn about what you can do with your Mac mini, start with the information in this chapter. Additional information can be found in Mac OS Help (see page 29) and on the Apple website at www.apple.com.

Connecting a Display or Video Device

You can connect displays with a DVI connector to your Mac mini. Using one of the adapters described below, you can also connect displays with a VGA connector or you can connect a video device.

DVI to VGA Adapter

Use the Apple DVI to VGA Adapter that came with your computer to connect a display with a VGA connector.



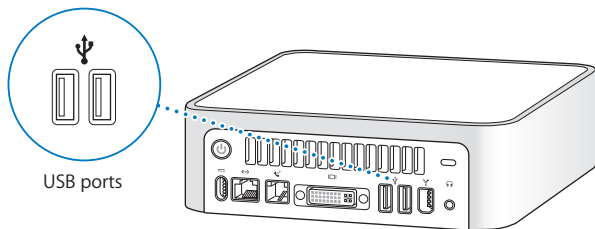
DVI to Video Adapter

You can also connect a television, VCR, or other external video device to your computer with the Apple DVI to Video Adapter, which is available from the Apple Store at www.apple.com/store.

For information about compatibility with third-party displays, see the documentation that came with the display or contact the display's manufacturer.

Universal Serial Bus (USB)

Your Mac mini comes with two USB ports on the back, which you can use to connect many types of external devices, including a keyboard, a mouse, printers, scanners, digital cameras, game pads, joysticks, keyboards, and floppy disk drives. USB makes it easy to connect peripherals. In most cases you can connect and disconnect a USB device while the computer is running. Once you connect the device, it is ready to use.



Using USB Devices

To use a USB device, simply connect the device to the computer. Your computer automatically accesses the necessary software whenever you connect a new device.

You can connect USB 1.1 devices and high-speed USB 2.0 devices to the USB 2.0 ports on the back of your computer. USB 1.1 devices won't take advantage of the USB 2.0 higher transfer rate.

Note: Apple has already included software to work with many USB devices. When you connect a USB device, if your Mac mini cannot find the correct software, you can install the software that came with the device or check the device manufacturer's website for the latest software.

Using Multiple USB Devices at the Same Time

If all of your USB ports are being used and you want to connect more USB devices, you can purchase a USB hub. The USB hub connects to an open USB port on your computer and provides additional USB ports (usually four or seven). Most USB hubs also have a power adapter and should be plugged into an outlet.

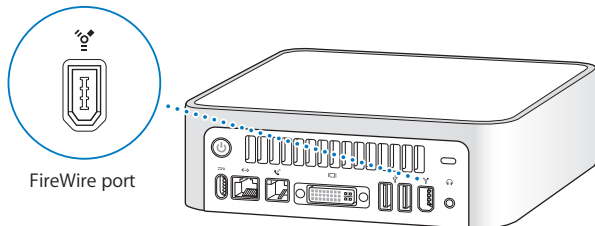
For More Information on USB

Additional information on USB is available in Mac OS Help (see page 29). Choose Help > Mac Help and search for "USB." You can also find information on the Apple USB website at www.apple.com/usb.

For information on USB devices available for your computer, check the Macintosh Products Guide at www.apple.com/guide.

FireWire

Your computer has a FireWire 400 port, which lets you easily connect and disconnect external high-speed devices—such as an iPod, an iSight camera, digital video cameras, printers, scanners, and hard disks—without restarting your computer.



These are some of the things you can do with FireWire:

- Connect an iPod and transfer songs from iTunes or synchronize contact and calendar information using iSync. You can also use an iPod as an external hard disk.
- Connect an Apple iSight camera and use the included iChat AV application to videoconference with friends and family over a high-speed Internet connection.
- Connect a digital video camera to capture, transfer, or edit high-quality video directly on your computer using video-editing software such as iMovie or Final Cut Express.
- Connect an external FireWire hard disk and use it to back up data or transfer files.
- Start up from an external FireWire hard disk. Connect an external FireWire disk (with a valid operating system installed on it), open the Startup Disk pane of System Preferences, and click the FireWire disk. Restart your computer.

Using FireWire Devices

To use a FireWire device with your computer, simply connect the device to the computer. Apple has already included software to work with many FireWire devices. When you connect a FireWire device, if your Mac mini cannot find the correct software, you can install the software that came with the device or check the device manufacturer's website for the latest software.

Note: The FireWire port is designed to provide power for FireWire devices (up to a total of 8 watts). You can connect multiple devices to each other and connect the "daisy-chain" of devices to the FireWire port on your computer. In most cases, no more than two devices should get power from the computer. If you connect more than two devices, the rest of the devices in the daisy-chain should be powered by separate power adapters. Connecting more than two FireWire devices that get power from the computer may cause problems. If a problem occurs, shut down the computer, disconnect the FireWire devices, and restart your computer.

For More Information on FireWire

Additional information on FireWire is available in Mac OS Help (see page 29). Choose Help > Mac Help and search for "FireWire." You can also find information on the Apple FireWire website at www.apple.com/firewire.

AirPort Extreme Wireless Internet and Networking

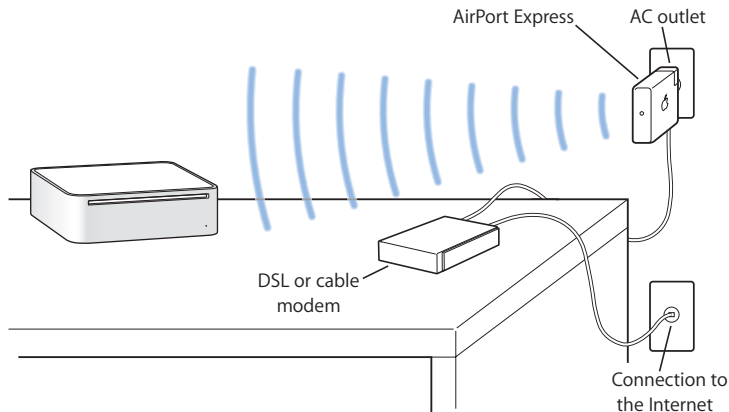
If you ordered an AirPort Extreme Card when you purchased your Mac mini, the card is already installed. AirPort offers an easy and affordable way to provide wireless Internet access anywhere in the home, at work, or in the classroom. Instead of using traditional cables, AirPort uses wireless local area network (LAN) technology to provide wireless communication between multiple computers. Through a wireless network, you can access the Internet, transfer files, play multiplayer games, print wirelessly, and more.

Note: If you didn't order an AirPort Extreme Card with your Mac mini, you can have one installed by an Apple Authorized Service Provider or at an Apple Store.

Wireless Internet access requires an AirPort Extreme Card. You also need an AirPort or AirPort Extreme Base Station, or AirPort Express, as well as Internet access (fees may apply). Some Internet service providers are not currently compatible with AirPort. Range may vary with site conditions.

How AirPort Provides Wireless Internet Access

With AirPort, you set up a wireless connection to a device known as a *base station*, which has a physical connection to the Internet. AirPort technology works like a cordless telephone. The AirPort Extreme Card in the computer makes a wireless connection to the base station, which is connected to the Internet via a telephone line or a DSL or cable modem.



AirPort Express and AirPort Extreme Base Station

Use an AirPort Express to play iTunes music over your wireless network to your home stereo or powered speakers. With an AirPort Extreme Base Station or AirPort Express, you can also share a broadband Internet connection for up to 10 users and a USB printer. (Wireless printing over USB requires a compatible printer.)

Important: To ensure you have an adequate AirPort signal, don't place anything on top of your Mac mini. Objects placed on top of the computer can cause interference. See the instructions that came with your AirPort Extreme Base Station or AirPort Express to learn about avoiding interference. For more information, go to Apple Support at www.apple.com/support.

For More Information on AirPort

To purchase an AirPort Express or AirPort Extreme Base Station, contact your Apple-authorized dealer or go to the Apple Store at www.apple.com/store. Additional information on AirPort is available in AirPort Help. Choose Help > Mac Help, then choose Library > AirPort Help.

Bluetooth Wireless Technology

If you ordered a Bluetooth module when you purchased your Mac mini, it's already installed. With the Bluetooth module, you can connect to devices that use Bluetooth wireless technology, such as mobile phones, PDAs, printers, and the Apple Wireless Keyboard and Mouse (available for purchase at www.apple.com/store).

Note: If you didn't order a Bluetooth module with your Mac mini, you can have one installed by an Apple Authorized Service Provider or at an Apple Store.

With Bluetooth wireless technology, you can do the following:

- Use your Mac mini to communicate with a mobile phone equipped with Bluetooth wireless technology. Your phone can act as a modem to connect you to a wireless service provider, at speeds of up to 56 kilobits per second (kbit/s), so you can use your mobile phone to access the Internet.
- Communicate with your PDA. Using iSync, you can perform a hot sync operation without cables or send a business card or calendar events to a colleague's PDA.
- Transfer files between computers, even Mac to PC, using the transfer utility. Apple still recommends the use of AirPort Extreme wireless networking, however, for anything but the smallest files.
- Use a Bluetooth wireless keyboard or mouse.

Important: To ensure you have an adequate Bluetooth signal, don't place anything on top of your Mac mini. Objects placed on top of the computer can cause interference.

To set up a Bluetooth device:

- Use the Bluetooth Setup Assistant, located in the Applications/Utilities folder on your hard disk. You can also choose "Set up Bluetooth Device" from the Bluetooth status menu in the menu bar.

Setting Up Bluetooth File Exchange

You can control how your computer handles files that are exchanged between it and other Bluetooth devices. You can choose a folder for the files you accept from other devices, a folder for other devices to browse, and which applications to use to open the files you accept.

To set up a Bluetooth file exchange:

- Open System Preferences and click Bluetooth, then click File Exchange.

Setting Up Bluetooth Connections

Bluetooth enabled devices, such as computers, mobile phones, and handheld devices (PDAs), can connect to each other wirelessly at distances up to 10 meters (33 feet).

To set up a Bluetooth device to work with your computer:

- 1 Make sure you have a Bluetooth module installed in your computer or a USB Bluetooth module connected to your computer.
- 2 Open System Preferences and click Bluetooth.
- 3 Click Set Up New Device.
- 4 Choose the type of device you want to set up and follow the onscreen instructions.

Sending a File to a Bluetooth Enabled Device

Your computer can wirelessly send files to other Bluetooth devices in range of your computer. If your computer is not paired with the device, you may have to enter a password on both devices to pair.

If you have already paired with the device, you may not have to enter a password again.

To send a file to a Bluetooth enabled device:

- 1 Open the Bluetooth File Exchange application, located in Applications/Utilities.
- 2 Choose File > Send File, select the file you want to send, then click Send.
- 3 Choose a device from the Device list and click Send.
- 4 If the device is not in the Device list, click Search. When Bluetooth File Exchange finds the device, you can add it to your Favorites list.

Use the File Exchange pane of Bluetooth preferences to set options for how your computer handles files exchanged with other Bluetooth devices.

You can also send a file by choosing Send File from the Bluetooth status menu in the menu bar.

For More Information on Bluetooth Wireless Technology

You can get help using Bluetooth wireless technology by opening the Bluetooth File Exchange application (located in the Utilities folder within the Applications folder) and choosing Help > Bluetooth Help. You can also find information on the Apple website at www.apple.com/bluetooth.

For More Information on Using Audio

Additional information about using audio is available in Mac OS Help (see page 29). Choose Help > Mac Help and search for “audio” or “music.” For information on audio and music products you can use with your Mac mini, check the Macintosh Products Guide at www.apple.com/guide.

Using Your Optical Drive

You can install or use software from CDs and DVDs using your optical drive. You can play music from audio CDs and play DVD movies. You can also burn music CDs that can play in most CD players, and you can save documents and other digital files on CD-R and CD-RW discs.

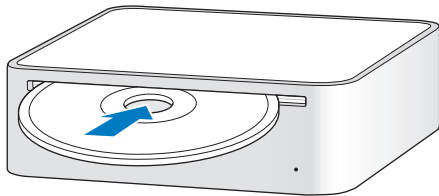
Note: If you have older software that comes on floppy disks, contact the software manufacturer to see if the software is available on a CD or for download from the web, or purchase an external USB floppy disk drive for your Mac mini from your Apple dealer or the Apple Store (www.apple.com/store).

Inserting a CD or DVD Disc

To install or use programs from a CD or DVD disc, follow these steps:

- 1 Place the disc into the optical drive with the label side up.
- 2 When the icon for the disc appears on the desktop, the disc is ready to use.

Note: Some DVD discs are two-sided and don't have a label on either side.



Ejecting a Disc

To eject a disc, drag the disc icon to the Trash. If you can't eject the disc, quit any applications that may be using the disc and try again. If that doesn't work, restart the computer while holding down the mouse button.

Important: Don't place anything on top of your computer. Objects placed on top of the computer may keep the disc from ejecting.

Playing DVD Discs

To play a DVD, insert the DVD disc. DVD Player opens automatically and starts playing the disc.

Recording CD-R and CD-RW Discs

You can record music on CD-R or CD-RW discs right from your iTunes library.

To burn music to a CD-R or CD-RW disc using iTunes:

- 1 Click the iTunes icon in the Dock.
- 2 Select the playlist you want to record.
- 3 Insert a blank CD-R or CD-RW disc. (For highest compatibility with CD players, use a CD-R disc.)
- 4 At the top of the iTunes window, click Burn CD.

To burn your files and folders on CD-R and CD-RW discs using the Finder:

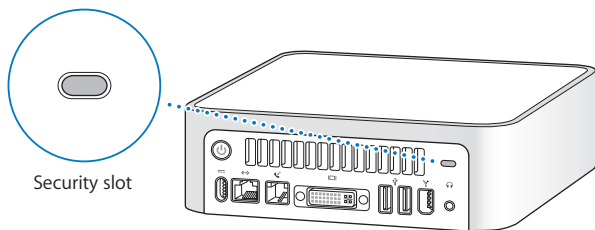
- 1 Insert a blank disc in the optical drive.
- 2 In the dialog that appears, enter a name for the disc. An icon for the CD appears on the desktop.
- 3 Drag files and folders to the disc icon.
- 4 Choose File > Burn Disc, or select the disc and drag it to the Burn Disc icon in the Dock.

For More Information

- For information about how to use iTunes to record music files on a CD-R disc, open iTunes and choose Help > iTunes and Music Store Help.
- For instructions on using DVD Player, open DVD Player and choose Help > DVD Player Help.

Securing Your Computer

Use a locking cable (available at www.apple.com/store) and the built-in security slot to attach your Mac mini to a stationary object.



Additional information on the software security features of your Mac mini, including multiple user passwords and file encryption, is available in Mac OS Help (see page 29). Choose Help > Mac Help and search for “security” or “multiple users.”

Occasionally you may have problems while working with your Mac mini. This chapter gives you some solutions to try when you have a problem.

This chapter contains solutions to problems that prevent you from working with your computer, such as a system freeze or a computer that will not start up. You can find more troubleshooting information in Mac OS Help (see page 29) or on the Apple Support website at www.apple.com/support.

When you experience a problem with your computer, there is usually a simple and quick solution. When you encounter a problem, try to make a note of things you did before the problem occurred. This will help you narrow down the possible causes of the problem and then find the answers you need. Things to note include:

- The applications you were using when the problem occurred. Problems that occur only with a specific application may indicate that the application is not compatible with the version of the Mac OS installed on your computer.
- Any software that you recently installed. Certain applications install extensions that may not be compatible with the Classic environment.
- Any new hardware (such as a peripheral) that you connected.

Problems That Prevent You From Using Your Computer

If the computer won't respond or the pointer won't move

- First, make sure the mouse and keyboard are connected. Unplug and then plug in the connectors and make sure they are secure.
- If that doesn't work, try to force problem applications to quit. Hold down the Option and Command (⌘) keys and then press the Esc key. If a dialog appears, select the application and click Force Quit. Then save your work in any open applications and restart the computer to be sure the problem is entirely cleared up.
- If you are unable to force the application to quit, press and hold the power button (⏻) on the back of the computer for five seconds to shut down the computer.
- If that doesn't work, unplug the power cord from the computer. Then plug the power cord back in and press the power button (⏻) on the computer to turn it on.

If the problem occurs frequently when you use a particular application, check with the application's manufacturer to see if it is compatible with your computer.

For support and contact information about the software that came with your computer, go to www.apple.com/guide.

If the problem occurs frequently, you may need to reinstall your system software (see "Reinstalling the Software That Came With Your Computer" on page 51).

If the computer freezes during startup or you see a flashing question mark

- Wait a few seconds. If the computer doesn't start up after a delay, shut down your computer by pressing and holding the power button (⏻) for about 5 seconds, until the computer shuts down. Then hold down the Option key and press the power button (⏻) again to start up your computer. When your computer starts up, click the hard disk icon, then click the right arrow.
- After the computer starts up, open System Preferences and click Startup Disk. Select a local Mac OS X System folder.
- If the problem occurs frequently, you may need to reinstall your system software (see "Reinstalling the Software That Came With Your Computer").

If the computer won't turn on or start up

- Make sure the power cord is plugged into the computer and into a functioning power outlet.
- If that does not work, press the power button (⏻) and immediately hold down the Command (⌘), Option, P, and R keys until you hear the startup sound a second time.
- If that does not work, unplug the power cord and wait at least 30 seconds. Plug the power cord back in and press the power button (⏻) again to start up your computer.
- If you are still unable to start up your computer, see the service and support information on page 56 for information on contacting Apple for service.

Reinstalling the Software That Came With Your Computer

Use the software install discs that came with your computer to reinstall Mac OS X and the applications that came with your computer, and to install Mac OS 9 (if you want to use Mac OS 9 applications with your computer).

Important: Apple recommends that you back up the data on your hard disk before restoring software. Apple is not responsible for any lost data.

Installing Mac OS X

To install Mac OS X, follow these steps:

- 1 Back up your essential files, if possible.
- 2 Insert the Mac OS X Install Disc 1 that came with your computer.
- 3 Double-click “Install Mac OS X and Bundled Software.”
- 4 Follow the onscreen instructions.
- 5 After selecting the destination disk for installation, continue following the onscreen instructions. Your computer may restart and ask you to insert the next Mac OS X install disc.

Important: Because the “Erase and Install” option erases your destination disk, you should back up your essential files before installing Mac OS X and other applications.

Installing Applications

To install the applications that came with your computer, follow the steps below. Your computer must have Mac OS X already installed.

- 1 Back up your essential files, if possible.
- 2 Insert the Mac OS X Install Disc 1 that came with your computer.
- 3 Double-click “Install Bundled Software Only.”
- 4 Follow the onscreen instructions.
- 5 After selecting the destination disk for installation, continue following the onscreen instructions. To install iCal, iChat AV, iSync, iTunes, and Safari, follow the “Installing Mac OS X” instructions.

Installing Mac OS 9

Your Mac mini does not come with Mac OS 9 installed. To use Mac OS 9 applications with your computer, you have to install Mac OS 9 using the Mac OS 9 Install Disc.

Follow these steps to install Mac OS 9:

- 1 Back up your essential files, if possible.
- 2 Insert the Mac OS 9 Install Disc that came with your computer.
- 3 Double-click "Install Mac OS 9 System Support."
- 4 Follow the onscreen instructions.
- 5 After selecting the destination disk for installation, continue following the onscreen instructions.

Other Problems

If you have a problem with an application

- For problems with software from a manufacturer other than Apple, contact the manufacturer. Software manufacturers often provide updates to their software on their websites. You can set your Mac mini to check for and install the latest Apple software automatically using the Software Update pane of System Preferences. For more information, choose Help > Mac Help and search for "software update."

If you have trouble using AirPort wireless communication



- Make sure you have properly configured the software according to the instructions that came with your AirPort Extreme Card or base station.
- Make sure the computer or network you are trying to connect to is running and has a wireless access point.

- Make sure you are within antenna range of the other computer or the network's access point. Nearby electronic devices or metal structures can interfere with wireless communication and reduce this range. Repositioning or rotating the computer may improve reception.
- Check the AirPort signal level. There are up to four bars in the AirPort status icon in the menu bar.
- Make sure nothing is placed on top of your computer. Objects on top of the computer may interfere with the AirPort signal.
- You may experience network performance problems if a microwave oven, cordless phone, or other source of interference is used frequently near your base station. To minimize interference, move the base station away from the device.
- For more information on using and troubleshooting AirPort, choose Help > Mac Help, then choose Library > AirPort Help.

If you have trouble ejecting a disc

- Quit any applications that may be using the disc and press the Media Eject key (⏏) on your Apple Keyboard. On other keyboards, you may be able to use a key combination to eject discs. Check the documentation that came with your keyboard.
- If that doesn't work, open a Finder window and click the eject icon next to the disc icon in the Sidebar, or drag the disc's icon from the desktop to the Trash.
- Make sure nothing is placed on top of your computer. Objects placed on top of the computer may keep a disc from ejecting.
- If that doesn't work, restart the computer while holding down the mouse button.

If you have problems with your Internet connection

- Make sure your telephone line or network cable is connected and functioning properly.
- If you are using a dial-up Internet connection, make sure that your telephone cord is plugged into the modem port (marked with the icon ) and not the Ethernet port (marked with the icon ) .
- See “Connecting to the Internet” on page 69 for information on setting up your computer to connect to the Internet. There you will find how to locate your Internet settings and the contact information for your Internet service provider (if you used the Setup Assistant to get your Internet account).
- See “Troubleshooting Your Connection” on page 91 for more information if you have problems with your Internet connection.

If you have a problem using your computer or working with the Mac OS

- If the answers to your questions are not in this manual, look in Mac OS Help for instructions and troubleshooting information. Choose Help > Mac Help.
- Check the Apple Support website at www.apple.com/support for the latest troubleshooting information and software updates.

If your date and time settings get lost repeatedly

- You may need to have the internal backup battery replaced. See the service and support information on page 56 for more information.

Using Apple Hardware Test

You can use Apple Hardware Test to help determine if there is a problem with your computer's hardware.

To use Apple Hardware Test:

- 1 Disconnect all external devices from your computer except the display, keyboard, and mouse. If you have an Ethernet cable connected, disconnect it.
- 2 Insert the Mac OS X Install Disc 1 that came with your computer.
- 3 Restart your computer and hold down the Option key as it starts up. A list of available startup volumes appears. Click Apple Hardware Test and click the right arrow.
- 4 When the Apple Hardware Test main screen appears after about 45 seconds, follow the onscreen instructions.
- 5 If Apple Hardware Test detects a problem, it displays an error code. Make a note of the error code before pursuing support options. If Apple Hardware Test does not detect a hardware failure, the problem may be software related.

For more information about Apple Hardware Test, see the Apple Hardware Test Read Me file on the Mac OS X Install Disc 1.

Learning More, Service, And Support

Your Mac mini does not have any user-accessible parts. If you need service, take your Mac mini to an Apple Authorized Service Provider or contact Apple for service. You can find more information about your Mac mini through online resources, onscreen help, System Profiler, or Apple Hardware Test.

If you didn't order a Bluetooth module or AirPort Extreme Card with your Mac mini or if you want additional memory installed, contact an Apple Authorized Service Provider or an Apple Store.

Online Resources

For online service and support information, go to www.apple.com/support/. Choose your country from the pop-up menu. You can search the AppleCare Knowledge Base, check for software updates, or get help on Apple's discussion boards.

Onscreen Help

You can often find answers to your questions, as well as instructions and troubleshooting information, in Mac OS Help. Choose Help > Mac Help.

System Profiler

To get information about your computer, use System Profiler. System Profiler shows you which hardware and software is installed, the serial number and operating system version, how much memory is installed, and more. To open System Profiler, choose Apple (🍏) > About This Mac from the menu bar and then click More Info.

Apple Hardware Test

You can use Apple Hardware Test to diagnose hardware problems on your Mac mini. For more information, see "Using Apple Hardware Test" on page 56.

AppleCare Service and Support Information

Your Mac mini comes with 90 days of telephone support and one year of service coverage at an Apple-authorized repair center. You can extend your coverage by purchasing the AppleCare Protection Plan. For more information, visit the website address for your country listed on page 58.

If you need further assistance, AppleCare telephone support representatives can help you with installing and opening applications, and basic troubleshooting. Call the support center number nearest you (the first 90 days are complimentary). Have the date of purchase and your Mac mini serial number ready when you call.

Note: Your 90 days of complimentary telephone support begins on the date of purchase and telephone fees may apply.

Country	Phone	Website
United States	1-800-275-2273	www.apple.com/support
Australia	(61) 133-622	www.apple.com/au/support
Canada (English) (French)	1-800-263-3394	www.apple.com/ca/support www.apple.com/ca/fr/support
Ireland	(353) 1850 946191	www.apple.com/ie/support
New Zealand	00800-7666-7666	www.apple.com/au/support
United Kingdom	(44) 0870 876 0753	www.apple.com/uk/support

For a complete list, go to www.apple.com/contact/phone_contacts.html. Telephone numbers are subject to change and local and national telephone rates may apply.

Locating Your Product Serial Number

You can find the serial number on the bottom of your Mac mini. You can also use System Profiler to find the serial number. Choose Apple (🍏) > About This Mac from the menu bar and then click More Info. Click the Hardware triangle to view the serial number.

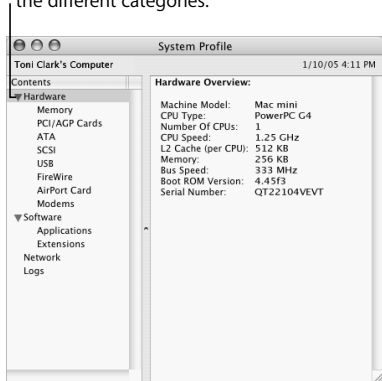
Specifications

A

You can use System Profiler to find out detailed information about your Mac mini, such as the amount of built-in memory, hard disk size, devices connected, and the product serial number.

To access the information in System Profiler, choose Apple (🍏) > About This Mac from the menu bar and then click More Info.

Click the triangles in the window to show and hide information in the different categories.



Additional information is available on the Internet at www.apple.com and www.apple.com/support.

Care, Use, and Safety Information

B

For your safety and that of your equipment, follow the rules in this appendix for cleaning and handling your computer, as well as the guidelines for working more comfortably.

Cleaning Your Mac mini

Follow these general rules when cleaning the outside of your computer and its components:

- Shut down your Mac mini and disconnect all cables.
- Use a damp, soft, lint-free cloth to clean the computer's exterior. Avoid getting moisture in any openings. Do not spray liquid directly on the computer.
- Don't use aerosol sprays, solvents, or abrasives.

Moving Your Mac mini

Before you lift or reposition your computer, you may need to turn it off and disconnect all cables and cords connected to it.

Safety Instructions for Setting Up and Using Your Computer

For your own safety and that of your equipment, always take the following precautions.

Disconnect the power plug (by pulling the plug, not the cord) and disconnect the phone cord if any of the following conditions exists:

- The power cord or plug becomes frayed or otherwise damaged
- You spill something into the case
- Your computer is exposed to rain or any other excess moisture
- Your computer has been dropped or the case has been otherwise damaged
- You suspect that your computer needs service or repair
- You want to clean the case (use only the recommended procedure described earlier)

Important: The only way to turn off power completely is to disconnect the power cord and phone cords. Make sure at least one end of the power cord is within easy reach so that you can unplug the computer when you need to.

Warning: Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug.

Be sure that you always do the following:

- Keep your computer away from sources of liquids, such as drinks, washbasins, bathtubs, shower stalls, and so on.
- Protect your computer from dampness or wet weather, such as rain, snow, and so on.

- Read all the installation instructions carefully before you plug your computer into a wall socket.
- Keep these instructions handy for reference by you and others.
- Follow all instructions and warnings dealing with your system.

Important: Electrical equipment may be hazardous if misused. Operation of this product, or similar products, must always be supervised by an adult. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables.

Warning: Never push objects of any kind into this product through the openings in the case. Doing so may be dangerous.

Connectors and Ports

Never force a connector into a port. If the connector and port don't join with reasonable ease, they probably don't match. Make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Power Adapter

Follow these guidelines for using the power adapter:

- Make sure you push the AC and DC power plugs snugly into the power adapter.
- Always leave space around the power adapter and use your computer in a location where airflow around the power adapter is not constricted.

- The only way to disconnect power completely is to unplug the power cord by pulling the plug, not the cord.

Important: The power adapter for your computer is a high-voltage component and should not be opened for any reason, even when it's unplugged. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables. If the power adapter needs service, see “Learning More, Service, And Support” on page 56.

Warning: Use only the power adapter that came with your computer and the AC cord that came with your power adapter. Adapters and cords for other electronic devices may look similar, but using them may affect your computer's performance or damage the computer. The AC power cord has a three-wire grounding plug (a plug that has a third grounding pin) that will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet.

Avoid Hearing Damage

Warning: Permanent hearing loss may occur if earbuds or headphones are used at high volume. You can adapt over time to a higher volume of sound, which may sound normal but can be damaging to your hearing. Set your Mac mini volume to a safe level before that happens. If you experience ringing in your ears, reduce the volume or discontinue use of earbuds or headphones with your Mac mini.

Ergonomics

Chair

An adjustable chair that provides firm, comfortable support is best. Adjust the height of the chair so your thighs are horizontal and your feet flat on the floor. The back of the chair should support your lower back (lumbar region). Follow the manufacturer's instructions for adjusting the backrest to fit your body properly.

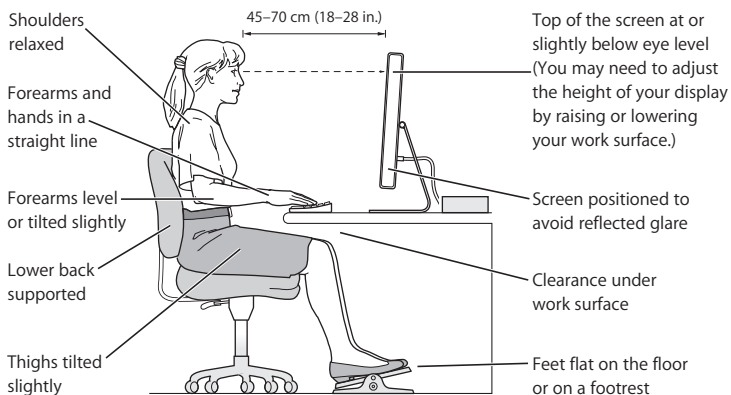
You may have to raise your chair so your forearms and hands are at the proper angle to the keyboard. If this makes it impossible to rest your feet flat on the floor, you can use a footrest with adjustable height and tilt to make up for any gap between the floor and your feet. You can also lower the desktop to eliminate the need for a footrest. Or use a desk with a keyboard tray that's lower than the work surface.

Display

Arrange the display so the top of the screen is slightly below your eye level when you're sitting at the keyboard. The best distance from your eyes to the screen is up to you, although most people seem to prefer 18 to 28 inches (45 to 70 cm). Position the display to minimize glare and reflections on the screen from overhead lights and windows

Mouse

Position the mouse at the same height as your keyboard and within a comfortable reach.



Keyboard

When you use the keyboard, your shoulders should be relaxed. Your upper arm and forearm should form an angle that is slightly greater than a right angle, with your wrist and hand in roughly a straight line.

Use a light touch when typing and keep your hands and fingers relaxed. Avoid rolling your thumbs under your palms.

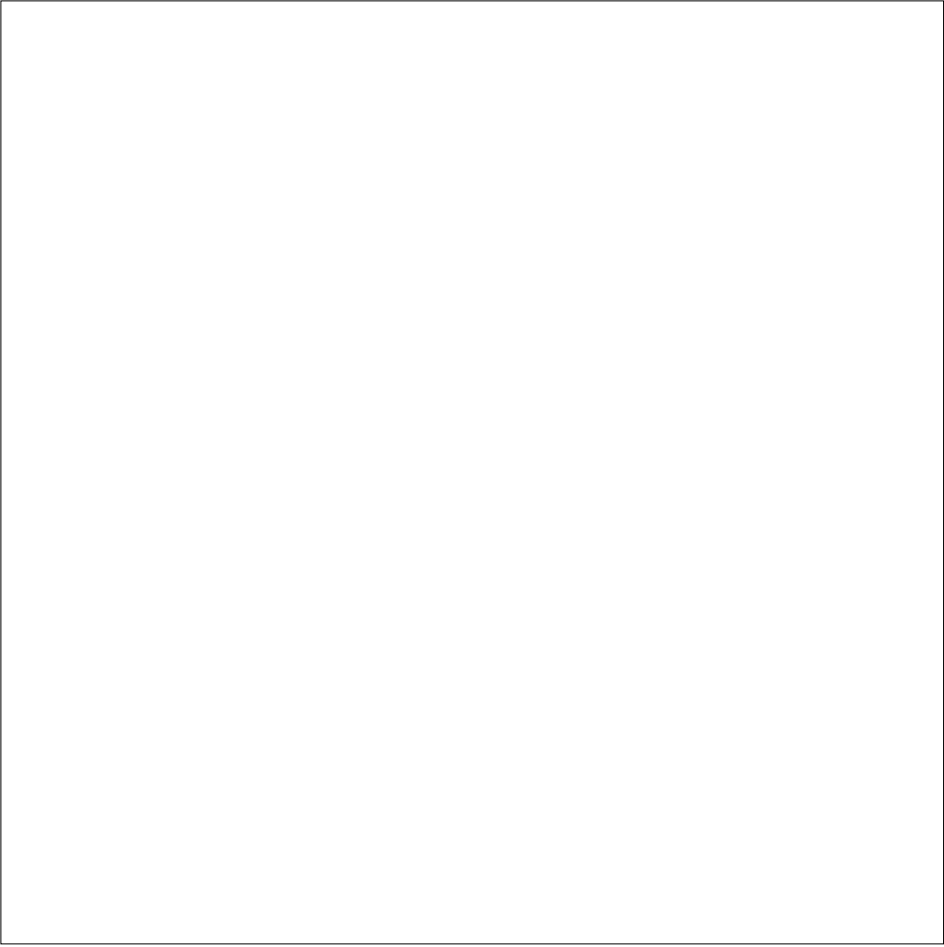
Change hand positions often to avoid fatigue. Some computer users may develop discomfort in their hands, wrists, or arms after intensive work without breaks. If you begin to develop chronic pain or discomfort in your hands, wrists, or arms, consult a qualified health specialist.

For More Information

Go to www.apple.com/about/ergonomics.

Apple and the Environment

Apple Computer, Inc., recognizes its responsibility to minimize the environmental impacts of its operations and products. For more information, go to www.apple.com/environment/summary.html.



Connecting to the Internet

C

You can use your computer to browse the World Wide Web, send email to friends and family, and chat in real time over the Internet. Use this detailed guide to connect to the Internet.

When you first start up Mac OS X, the Setup Assistant helps you enter your Internet configuration information and sign up for an Internet service provider (ISP) if you don't already have one.

If you didn't use the Setup Assistant to configure your Internet connection, you can use it now. Open System Preferences and click Network. Click the "Assist me" button to open Network Setup Assistant. If you don't want to use Network Setup Assistant, you can use the information in this appendix to set up your connection manually.

There are four kinds of Internet connections:

- **Dial-up connection:** Your computer is plugged into a telephone wall jack using a telephone cable (with computers that include a modem).
- **High-speed DSL or cable modem connection:** Your computer is plugged into a special modem you get from an ISP using an Ethernet cable.

- **AirPort Extreme or AirPort Express wireless connection:** Your computer is connected wirelessly to the Internet using an AirPort Extreme Base Station or AirPort Express.
- **Local area network (LAN):** Your computer is plugged into a LAN using an Ethernet cable. This type of connection is usually used in the workplace.

Before you connect to the Internet:

- 1 Set up an account with an ISP. If you do not have an ISP account, the Setup Assistant can help you get one. If you don't want to use the ISP suggested by the Setup Assistant, you can find an ISP in your phone directory. Look under "Internet access," "Internet service," or "online."

Note: If you want to use America Online as your ISP, skip the Internet setup part of the Setup Assistant. Instead, open the AOL Installer application and follow the onscreen instructions to set up AOL.

- 2 Gather the connection information you need from your ISP or network administrator. See the next section, "Setup Assistant Worksheet" on page 72 to find out what information to get for each type of connection.

In some cases, if another computer in the same location is already connected to the Internet, you may be able to use its settings.

To find the settings on a Mac OS X computer:

- Open the Network pane of System Preferences.
- Choose your connection method from the Show pop-up menu.
- Copy the information for your configuration.

To find the settings on a Mac OS 9 computer:

- Open the TCP/IP control panel.
- Find the connection method in the “Connect via” pop-up menu.
- Find the configuration in the Configure pop-up menu.
- Copy the IP address, subnet mask, and router address from the corresponding fields.

To find the settings on a Windows PC:

The connection information on a Windows computer resides in two places.

- To find the IP address and subnet mask, open the “Network and Internet Connections” control panel.
- To find user account information, open the User Accounts control panel.

You can write the information directly on the next few pages, then enter it in the Setup Assistant.

- 1 If you are using a dial-up modem, plug a phone cord (included with most Macintosh computers) into your computer’s modem port and into a phone wall jack. If you are using a DSL or cable modem, follow the instructions that came with the modem to connect it to your computer.
- 2 Turn on your computer and enter information in the Setup Assistant to configure your Internet connection.

Note: If you already started your computer and did not use the Setup Assistant to configure your Internet connection, choose Apple (🍏) > System Preferences and click Network. Then click “Assist me.” The Setup Assistant opens.

Setup Assistant Worksheet

You can write the information you get from your Internet service provider (ISP), your network administrator, or your other computer on these pages, then enter it in Network Setup Assistant.

Select how your computer connects to the Internet.

- Telephone Modem
- Cable Modem
- DSL Modem
- Local network (Ethernet)

To set up a telephone dial-up connection, enter the following information:

User Name

Password

ISP Phone Number

Dialing prefix to obtain an outside line

To set up a DSL or cable modem or a LAN connection:

1 Choose your connection type. Ask your ISP for this information.

- Manually
- Manually using DHCP Router
- Using DHCP
- Using BootP
- PPP

2 Enter information from your ISP:

If you selected “Manually” or “Manually using DHCP Router,”¹ enter the following:

IP Address

Subnet Mask

Router Address

If you selected “Using DHCP,” enter the following:

DHCP Client ID

¹ If you selected “Manually using DHCP Router,” you don’t need to enter a subnet mask or router address

Note: DHCP Client ID is optional and may not be required. Ask your ISP.

If you selected “PPP (for PPPoE connections),” enter the following:

Service Provider (optional)

PPPoE Service Name (optional)

Account Name

Password

The information below is optional. Ask your ISP if you need to enter it.

DNS Hosts (optional for DHCP & BootP)

Domain Name (optional)

Proxy Server (optional)

Setting Up Your Internet Connection Manually

Once you have completed the steps on the previous pages using the Setup Assistant, you are done setting up your Internet connection. If you don't wish to use the Setup Assistant, or if you only want to make changes to specific parts of your Internet setup configuration, you can use the instructions below to set up your connection manually.

To enter your information manually, follow the steps that correspond to your connection method.

- Dial-up modem with Point-to-Point Protocol (PPP) connection (see page 75)
- Cable modem, DSL, or LAN connection using these configurations:
 - Manual (see page 81)
 - DHCP (see page 82)
 - PPPoE (see page 84)
- AirPort Extreme wireless connection (see page 87)

Dial-Up Connection

A dial-up modem is the most common way to connect to the Internet. Your modem uses a method called Point-to-Point Protocol (PPP) to connect to an ISP.

Make sure your modem is plugged into a phone line and you have the information from your ISP available (see page 72).

To set up Network preferences for the internal modem port:

- 1 Choose Apple (🍏) > System Preferences from the menu bar.
- 2 Click Network.

- 3 Choose Network Port Configurations from the Show pop-up menu and select the On checkbox next to Internal Modem.



- 4 Drag Internal Modem to the top of the Port Configurations list to make it the preferred, or primary, network interface.
- 5 Choose Internal Modem from the Show pop-up menu and click PPP.

6 Enter the information from your ISP and click Apply Now.



To test your Internet configuration:

- 1 Open the Internet Connect application (in the Applications folder).
- 2 Click the Internal Modem icon, if necessary.
- 3 Enter your dial-up telephone number, account name, and password, if necessary.
- 4 Click Connect.

Internet Connect dials your ISP and establishes a connection.

To connect automatically when you start an Internet application, such as a web browser or email:

- 1 Click PPP Options (in the PPP pane of Network preferences).
- 2 Select the “Connect automatically when needed” checkbox.



- 3 Click OK and Apply Now.

DSL, Cable Modem, or LAN Internet Connections

If you connect to the Internet using a DSL or cable modem or Ethernet LAN, ask your ISP or network administrator how you should configure your Internet connection:

- **Manually:** With a manual configuration, your ISP or network administrator provides a static IP address and other information that you enter in Network preferences.
- **Using Dynamic Host Configuration Protocol (DHCP):** With a DHCP configuration, the DHCP server automatically enters the information for you.
- **Using Point-to-Point Protocol over Ethernet (PPPoE):** If you use a DSL modem and need a user name and password to connect to the Internet, you may need to configure your network to use PPPoE.

Make sure you have the information from your ISP available as you configure your network (see page 72).

To set up Network preferences for the built-in Ethernet port:

- 1 Choose Apple (🍏) > System Preferences from the menu bar.
- 2 Click Network.
- 3 Choose Network Port Configurations from the Show pop-up menu.

4 Select the On checkbox next to Built-in Ethernet.



5 Drag Built-in Ethernet to the top of the Port Configurations list to make it the preferred, or primary, network interface.

Next, follow the instructions to configure your network manually, using DHCP, or using PPPoE, as instructed by your ISP or network administrator.

Manual Configuration

Have your static IP address, router address, and subnet mask from your ISP ready (see page 72).

To set up a manual configuration:

- 1 In Network preferences, choose Built-in Ethernet from the Show pop-up menu.
- 2 Click TCP/IP, if necessary.
- 3 Choose Manually from the Configure IPv4 pop-up menu.



- 4 Type the other information into the corresponding fields.
- 5 Click Apply Now.

Once you configure your network, your connection is ready. Open your web browser (or another TCP/IP application) to test your Internet connection.

DHCP Configuration

After you set up a DHCP configuration, the DHCP server automatically provides your network information.

To set up a DHCP configuration:

- 1 In Network preferences, choose Built-in Ethernet from the Show pop-up menu.
- 2 Click TCP/IP, if necessary.

3 Choose Using DHCP from the Configure IPv4 pop-up menu.



4 Click Apply Now.

Open your web browser (or another TCP/IP application) to test your Internet connection.

Note: Unless your ISP instructs you to do otherwise, ignore the DHCP Client ID field and the Search Domains field.

PPPoE Configuration

Some DSL-based ISPs use Point-to-Point Protocol over Ethernet (PPPoE). If you use a DSL modem and need a user name and password to connect to the Internet, check with your ISP to determine if you should connect using PPPoE.

To set up a PPPoE connection:

Have your user name, password, and if required, the domain name server (DNS) address from your ISP available as you configure your network (see page 72).

- 1 In Network preferences, choose Built-in Ethernet from the Show pop-up menu.

2 Click PPPoE and select “Connect using PPPoE.”



3 Type the information into the corresponding fields. If you want all users of your computer to use the same connection method, select “Save password.”

Note: To connect automatically when you start a TCP/IP application, such as a web browser or email, click PPPoE Options, then select “Connect automatically when needed.”

- Click TCP/IP and choose either Using PPP or Manually from the Configure IPv4 pop-up menu, as instructed by your ISP. If you have a static IP address from your ISP, choose Manually and type the address in the IP Address field.
- Type the domain name server (DNS) addresses in the DNS Servers field.



- Click Apply Now.

Once you configure your network, your Internet connection is ready. You can open your web browser or other TCP/IP application to test your connection.

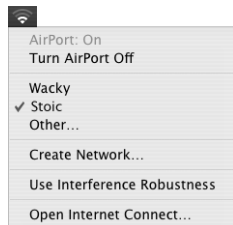
Important: If you did not select the option to connect automatically, you will need to open the Internet Connect application, choose the correct configuration, and then click Connect. For more information, choose Help > Internet Connect Help from the menu bar at the top of the display.

AirPort Extreme Wireless Connection

If your Mac mini has an AirPort Extreme Card installed, you can configure your AirPort network and Internet connection using the AirPort or AirPort Extreme Setup Assistant, located in the Utilities folder within your Applications folder. The assistant helps you configure your base station and set up your computer to use an AirPort Extreme Base Station or AirPort Express. For more information about your base station, see the setup guide that came with your base station. If your base station is already configured, in most cases your AirPort Extreme Card is ready to access it immediately.

To check if you have access to an AirPort Extreme network:

- Click the AirPort status icon in the menu bar and choose an AirPort network listed there.



If you don't see an AirPort network listed, you can use the AirPort Setup Assistant to check or change your settings, or you can change them using the Network pane of System Preferences.

Setting Up an AirPort Extreme Connection Manually

Gather the following information from your system administrator if you'll be setting up a manual connection.

If you'll be connecting using DHCP, most of this information is provided to your computer automatically by the network, so ask your system administrator what is required.

- Domain name server (DNS) addresses, if necessary
- DHCP or manual IP address configuration
- IP address
- Router address
- Subnet mask
- Password, if required

Next, make sure your AirPort connection options are active in Network preferences.

To set up Network preferences for an AirPort Extreme connection:

- 1 Choose Apple (🍏) > System Preferences from the menu bar.
- 2 Click Network.
- 3 Choose Network Port Configurations from the Show pop-up menu.

4 Select the On checkbox next to AirPort.



Next, follow the instructions to configure your network either manually or using DHCP, as instructed by your ISP or network administrator. If you're setting up your network yourself, it may be easier to configure the network using DHCP, because the server assigns IP addresses automatically.

- 1 Choose AirPort from the Show pop-up menu.
- 2 Click TCP/IP, if necessary.

3 In the Configure IPv4 pop-up menu, choose either Manually or Using DHCP.



- If you chose *Manually*, type the other information into the corresponding fields.
- If you chose *Using DHCP*, you don't need to enter any further information unless your system administrator has instructed you to do so.

- 4 Click AirPort and select options for joining an AirPort Extreme network after restarting or when your computer wakes from sleep.
- 5 Click Apply Now.

Once you configure your AirPort settings, you are ready to connect.

To test your AirPort Extreme connection:

- Click the AirPort status icon in the menu bar and choose Turn AirPort On. Any AirPort Extreme network in range should appear in the menu.

Troubleshooting Your Connection

Cable Modem, DSL, and LAN Internet Connections

If you can't connect to the Internet using your cable modem, DSL, or local area network (LAN), see the following steps.

Important: Instructions that refer to modems do not apply to LAN users. LAN users may have hubs, switches, routers, or connection pods that cable and DSL modem users do not. LAN users should contact their network administrator rather than an ISP.

Check the cables and power supplies

Make sure all modem cables are firmly plugged in, including the modem power cord, the cable from the modem to the computer, and the cable from the modem to the wall jack. Check the cables and power supplies to Ethernet hubs and routers.

Turn the modem on and off and reset the modem hardware

Turn off your DSL or cable modem for a few minutes, then turn it back on. Some ISPs recommend that you unplug the modem's power cord. If your modem has a reset button, you can press it either before or after you turn the power off and on.

PPPoE Connections

If you are unable to connect to your Internet service provider using PPPoE, first check the cables and power supplies, then turn the power off and on and reset the modem hardware.

Check System Preferences settings:

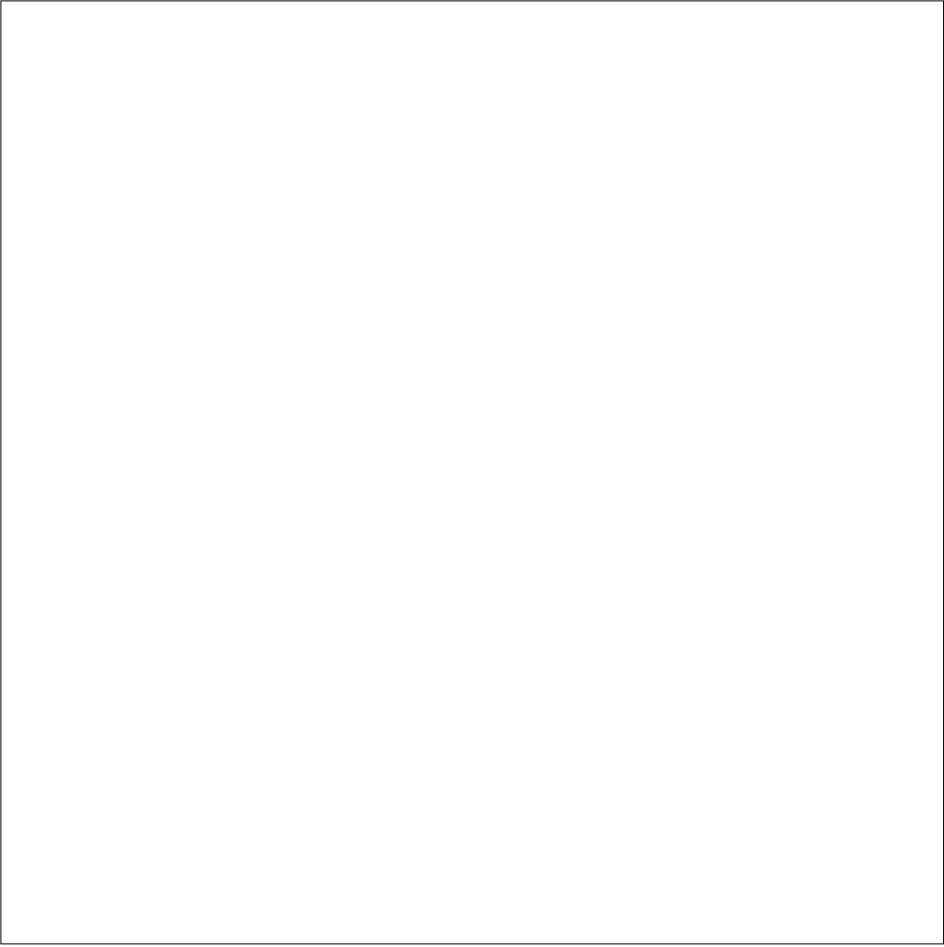
- 1 Choose Apple (🍏) > System Preferences.
- 2 Click Network.
- 3 Choose Network Port Configurations from the Show pop-up menu.
- 4 Drag Built-in Ethernet to the top of the Port Configurations list.
- 5 Choose Built-in Ethernet from the Show pop-up menu.
- 6 Click PPPoE.
- 7 Select "Connect using PPPoE."
- 8 Check the Account Name field to be sure you have entered the correct information from your ISP.
- 9 Retype your password if you chose to save your password, to be sure it is correct.
- 10 Click TCP/IP. Make sure you've entered the correct information from your ISP in this pane.
- 11 Click Apply Now.

Network Connections

If you have two or more computers attempting to share an Internet connection, be sure that your network is set up properly. You need to know if your ISP provides only one IP address or if it provides multiple IP addresses, one for each computer.

If only one IP address is used, then you must have a router capable of sharing the connection, also known as network address translation (NAT) or “IP masquerading.” For setup information, check the documentation provided with your router or ask the person who set up your network. The AirPort Extreme Base Station can be used to share one IP address among multiple computers. For information on using the AirPort Extreme Base Station, check the onscreen help or visit the Apple AirPort website at www.apple.com/airport.

If you cannot resolve the issue using these steps, contact your ISP.



Communications Regulation Information

FCC Compliance Statement

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. See instructions if interference to radio or television reception is suspected.

Radio and Television Interference

This computer equipment generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Apple's instructions—it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your computer system is causing interference by turning it off. If the interference stops, it was probably caused by the computer or one of the peripheral devices.

If your computer system does cause interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.

- Move the computer to one side or the other of the television or radio.
- Move the computer farther away from the television or radio.
- Plug the computer into an outlet that is on a different circuit from the television or radio. (That is, make certain the computer and the television or radio are on circuits controlled by different circuit breakers or fuses.)

If necessary, consult an Apple Authorized Service Provider or Apple. See the service and support information that came with your Apple product. Or, consult an experienced radio/television technician for additional suggestions.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables (including Ethernet network cables) between system components to reduce the possibility of causing interference to radios, television sets, and other electronic devices.

Important: Changes or modifications to this product not authorized by Apple Computer, Inc., could void the EMC compliance and negate your authority to operate the product.

Responsible party (contact for FCC matters only):

Apple Computer, Inc.

Product Compliance

1 Infinite Loop, M/S 26-A
Cupertino, CA 95014-2084
408-974-2000

High-Risk Activities Warning

This computer system is not intended for use in the operation of nuclear facilities, aircraft navigation or communications systems, or air traffic control machines, or for any other uses where the failure of the computer system could lead to death, personal injury or severe environmental damage.

ENERGY STAR® Compliance

As an ENERGY STAR® partner, Apple has determined that standard configurations of this product meet the ENERGY STAR guidelines for energy efficiency. The ENERGY STAR program is a partnership with office product equipment manufacturers to promote energy efficiency. Reducing energy consumption of office products saves money and reduces pollution by eliminating wasted energy.

Disposal and Recycling Information

For information about Apple's recycling program, go to www.apple.com/environment/summary.html.

Battery Disposal

Your Mac mini has a lithium-ion battery designed to last the life of the product. Do not attempt to change the battery. Only an Apple-certified technician can change the battery.

When this product has reached the end of its useful life, please dispose of it according to your local environmental laws and guidelines.

Taiwan:

廢電池請回收



Nederlands: Gebruikte batterijen kunnen worden ingeleverd bij de chemokar of in een speciale batterijcontainer voor klein chemisch afval (kca) worden gedeponeerd.



Telephone and Apple 56K Modem Information

Notify Your Telephone Company

Some telephone companies require that you notify the local business office when you hook up a modem to their lines.

Information You Need in the United States

The internal modem complies with Part 68 of the FCC rules. On the back of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN). If requested, provide this information to your telephone company.

- *Ringer equivalence number (REN):* 0.1B The REN is useful to determine the quantity of devices you may connect to your telephone lines and still have all those devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

- *Telephone jack type:* USOC, RJ-11 An FCC-compliant telephone cord and modular plug are provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that complies with Part 68 rules. See the installation instructions for details.

Telephone Line Problems

If your telephone doesn't work, there may be a problem with your telephone line. Disconnect the modem to see if the problem goes away. If it doesn't, report the problem either to your local telephone company or to your company's telecommunications people.

If disconnecting the modem eliminates the problem, the modem itself may need service. See the service and support information that came with your Apple product for instructions on how to contact Apple or an Apple-authorized service provider for assistance.

If you do not disconnect your modem when it is adversely affecting the telephone line, the telephone company has the right to disconnect your service temporarily until you correct the problem. The telephone company will notify you as soon as possible. Also, you will be informed of your right to file a complaint with the FCC.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of your equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications to maintain uninterrupted service.

The internal modem will not work with party lines, cannot be connected to a coin-operated telephone, and may not work with a private branch exchange (PBX).

Telephone Consumer Protection Act

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains, in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it was sent and an identification of the business or other entity, or individual sending the message and the telephone number of the sending machine of such business, entity, or individual.

Information You Need in Canada

The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to a user's satisfaction.

Before installing this equipment, make sure that you are permitted to connect to the facilities of the local telecommunications company. Be sure you use an acceptable method of connection to install the equipment. In some cases, you may extend the company's internal wiring for single-line individual service by means of a certified telephone extension cord. Be aware, however, that compliance with these conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any equipment malfunctions or repairs or alterations that you make to this equipment may cause the telecommunications company to request that you disconnect the equipment.

In Canada, contact Apple at:
7495 Birchmount Road, Markham, Ontario,
L3R 5G2, 800-263-3394

Warning: Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority or electrician.

- **Load number:** 0.1 The load number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to the telephone loop that is used by the device, to prevent overloading. The termination of a loop may consist of any combination of devices, subject only to the requirement that the sum of the load numbers of all devices does not exceed 100.
- **Telephone jack type:** CA-11

Informations Destinées aux Utilisateurs Canadiens

L'étiquette d'Industrie Canada identifie un matériel homologué. Cette étiquette certifie que le matériel est conforme à certaines normes de protection, d'exploitation et de sécurité des réseaux de télécommunications. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder au réseau de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. Dans certains cas, le câblage appartenant à l'entreprise utilisé pour un service individuel à ligne unique peut être prolongé au moyen d'un dispositif homologué de raccordement (cordon prolongateur téléphonique).

L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations. De fait, les entreprises de télécommunication ne permettent pas que l'on raccorde un matériel aux prises d'abonnés, sauf dans les cas précis prévus par les tarifs particuliers de ces entreprises.

Les réparations de matériel homologué doivent être effectuées par un centre d'entretien canadien autorisé désigné par la fournisseur. La compagnie de télécommunications peut demander à l'utilisateur de débrancher un appareil suite à des réparations ou à des modifications effectuées par l'utilisateur ou en raison d'un mauvais fonctionnement.

Veuillez contacter Apple pour des informations supplémentaires:

Apple Canada, Inc.
7495 Birchmount Road
Markham, Ontario
Canada L3R 5G2

Service à la clientèle d'Apple Canada: 800-263-3394

Avertissement : Pour sa propre protection, l'utilisateur doit s'assurer que tout les fils de mise à la terre du secteur, des lignes téléphoniques et les canalisations d'eau métalliques, s'il y en a, soient raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales.

L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à une service d'inspection des installations électriques ou à un électricien, selon le cas.

- **Numéro de charge:** 0.1 L'indice de charge (IC) assigné à chaque dispositif terminal indique, pour éviter toute surcharge, le pourcentage de la charge totale qui sera raccordée à un circuit téléphonique bouclé utilisé par ce dispositif. La terminaison du circuit bouclé peut être constituée de n'importe quelle combinaison de dispositifs pourvu que la somme des indices de charge de l'ensemble des dispositifs ne dépasse pas 100.
- **Type de prise téléphonique:** CA-11

Information You Need in the United Kingdom

This terminal equipment is intended for direct connection to the analogue Public Switched Telecommunications Network and is approved for use within the United Kingdom with the following features:

- Modem facility
- Autocalling facility
- Autoanswer facility
- DTMF signaling

Operation in the absence of proceed indication or upon detection of proceed indication

This product is in conformity with relevant regulatory standards following the provisions of European Council Directives 73/23/EEC (Low Voltage Directive) and 89/336/EEC amended by 92/31/EEC (EMC Directive).

Informationen für Deutschland

Diese Modem-Karte ist als Eindeinrichtung vorgesehen und muss ein ein TAE mit F-Kodierung angeschlossen werden. Diese Eindeinrichtung ist in Konformität gemäß Niederspannungsrichtlinie 73 / 23 / EWG sowie EMC-Richtlinien 89 / 336 / EWG und 92 / 31 / EWG.

Informations pour la France

Ce matériel est conforme aux normes applicables de sécurité électrique d'après la directive 73 / 23 / CEE et aux normes applicables de compatibilité électromagnétique d'après la directive 89 / 336 / CEE, modifié par la directive 92 / 31 / CEE.

Information You Need in Australia

All telecommunications devices are required to be labelled as complying to the Australian telecommunications standards, ensuring the health and safety of the operator and the integrity of the Australian telecommunications network. To provide compliance with the Australian Communications Authority's technical standards, please ensure that the following AT commands are maintained:

- ATB0 (ITU/CCITT operation)
- AT&G0 (no guard tone)
- AT&P1 (33/66 pulse dial make/break ratio)
- ATSO = 0 or ATSO = 1 (no answer or answer greater than one ring)
- ATS6 = 95 (DTMF period between 70–255 ms)
- ATS11 = 95 (DTMF period between 70–255 ms)

For calls that are automatically generated, a total of three call attempts are allowed to a telephone number, with a minimum period between calls of 2 seconds. If the call does not connect after three attempts, 30 minutes must expire before automatic redialing may be initiated. Failure to set the modem (and any associated communications software) to the above settings may result in the modem being non-compliant with Australian telecommunications standards. Under these circumstances a user could be subject to significant penalties under the Telecommunications Act 1997.

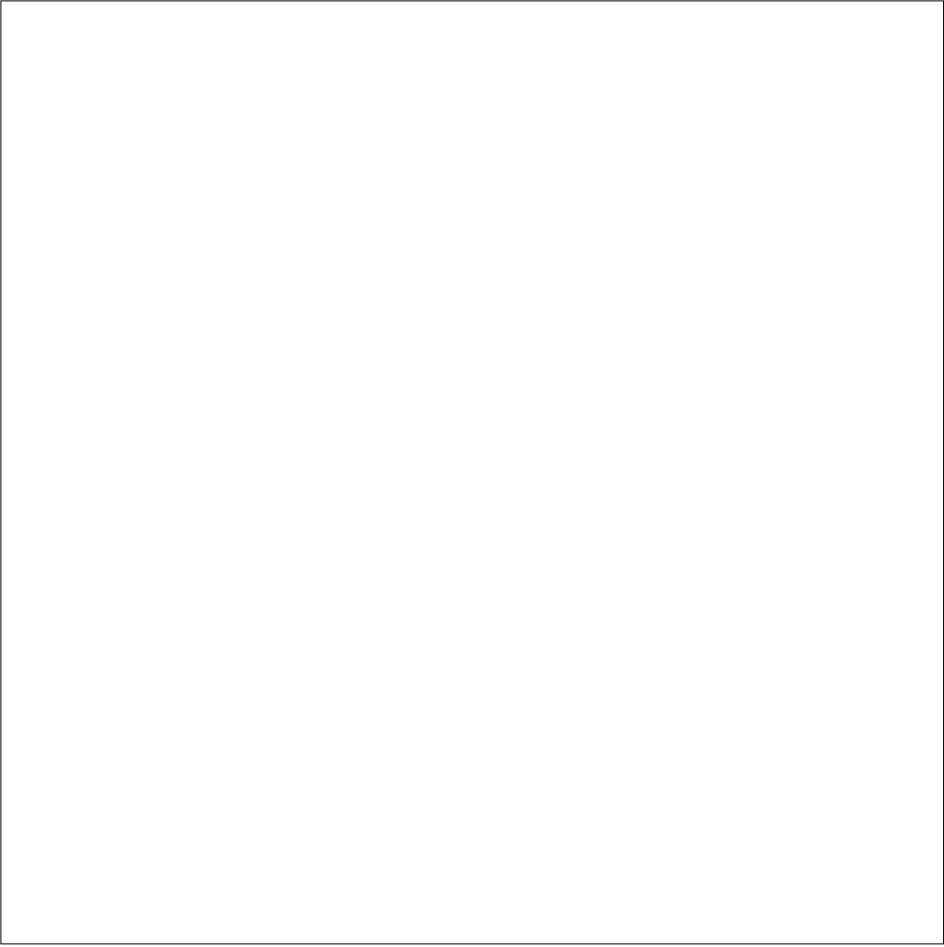
This modem must be properly secured in order for you to use it. Telecommunications network voltages exist inside the computer and the telecommunications line connection must be removed before opening the computer.

Information You Need in New Zealand

This modem is fully approved to operate on the New Zealand telecommunications network under Telepermit number PTC 211/04/002. All telecommunications devices are required to hold a Telepermit and be labelled accordingly with the approved Telepermit number to comply with the New Zealand telecommunications

standards, ensuring the health and safety of the operator and the integrity of the New Zealand telecommunications network. To ensure compliance, all calls that are automatically generated should not make more than 10 call attempts to the same number within any 30 minute period with a minimum period between calls of 30 seconds. Failure to adhere to these standards may result in the modem being non-compliant with New Zealand Telecom standards. Under these circumstances a user could be subject to significant penalties.

Important: The grant of a Telepermit for any item of terminal equipment indicates that only Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.



Index

A

- adapter 32
- AirPort Express 39
- AirPort Extreme 37
 - connection 75
 - problems using 53
 - setting up 87
- analog audio 45
- application freeze 28
- applications 30
- audio 44

B

- basic features 18
- Bluetooth wireless technology 39
- burning a disc 47

C

- cable modem 79
- cameras
 - digital 33
 - DV 35
- CD
 - burning (recording) 47

changing

- System Preferences 22
 - the desktop 22
- cleaning your computer 61
- computer disposal 97
- connecting
- a display 11
 - a keyboard 10
 - a mouse 10
 - a phone cord 9
 - a printer 23
 - an Ethernet cable 9
 - headphones 25
 - mobile phone 40
 - PDA via Bluetooth 40
 - the power cord 8
 - to a network 43
 - to the Internet 69

D

- date and time settings 55
- DHCP 75
 - configuration 82
- dial-up
 - connection 75

- modem 75
- dialup connection 69
- digital video camera 35
- display
 - adapters 32
 - connecting 32
 - setting up 11
- downloading software 25
- DSL 75, 79
- DVD-Video, playing 47
- DVI to VGA Adapter 11, 32
- DVI to Video Adapter 32
- Dynamic Host Configuration Protocol (DHCP) 79

E

- ejecting a disc 54
- Energy Saver 15
- environment 67
- ergonomics 65
 - chair 65
 - display 65
 - keyboard 66
 - mouse 66
- Ethernet 43

networking 43
port 19

F

FireWire
 connecting devices 35
 ports 19
 using FireWire devices 36
floppy disk drives 33
force quit 28
freezing up 50
frozen application 28

G

game pads 33

H

headphones, speakers 19

I

inserting a CD or DVD 46
installing
 applications 52, 53
 Mac OS 9 52, 53
 Mac OS X 52, 53
Internet 14
 configuration 77
 connecting to 14, 87
 problems connecting 55,
 91
 settings 72
Internet service provider 70

iPod 35
ISP 70

J

joysticks 33

K

keyboard 33
 ergonomics 66

L

LAN 79
 connection 75

M

Mac Help 29
Mac OS X
 installing 52
 learning about 20
manual Internet
 configuration 81
modem
 cable 43, 69
 DSL 43, 69
 port 19
monitoring
 a printer 23
mouse
 ergonomics 66
moving your computer 61

N

network connections 93

Network Setup Assistant 69

O

online resources 57
optical disc drive 45

P

Point-to-Point Protocol 75, 79,
 84
power adapter 63
power button 12, 19
power socket 19
PPPoE 75
 configuration 84
Print & Fax preferences 23
printing 23
 setup 23
problems
 AirPort Extreme 53
 computer freezes during
 startup 51
 computer won't
 respond 50
 computer won't start up 51
 connecting to Internet 91
 date and time settings
 lost 55
 ejecting a disc 54
 Internet connection 55
 problem with an
 application 53

R

- reinstalling software
 - software install disc 51

S

- safety 62
- save energy 15
- scanners 33, 35
- security slot 19
 - securing your computer 48
- serial number 58
- setting up
 - a printer 23
 - computer 8
 - display 11
 - Ethernet 9
 - power adapter 8
- Setup Assistant 13, 14

- shutting down 15
- sleep 15
- Software Update 25
- specifications 59
- static IP address 81
- stopping an application 28
- System Preferences 22
- System Profiler 59

T

- testing your Internet
 - configuration 77
- transferring
 - files or documents 27
 - information to your
 - Mac mini 13
- troubleshooting 49
- turn on your computer 12

U

- updating software 25
- USB 33
 - connecting devices 33
 - hubs 34
 - ports 19
 - using multiple devices at once 34

V

- video out port 19

W

- wireless networking and Internet access 37
- working with a printer 23

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034-2845-A
Printed in XXXX