



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for APPLE MAC MINI SERVER. You'll find the answers to all your questions on the APPLE MAC MINI SERVER in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual APPLE MAC MINI SERVER**

**User guide APPLE MAC MINI SERVER**

**Operating instructions APPLE MAC MINI SERVER**

**Instructions for use APPLE MAC MINI SERVER**

**Instruction manual APPLE MAC MINI SERVER**

Congratulations, you and your Mac mini  
were made for each other.



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### Manual abstract:

For information about MacHelp, see "Getting Answers" on page 28. Working with Mac OS X Server  
As soon as you set up your Mac mini, it's ready to host all of the services provided by Mac OS X Server. For information about configuring and using Mac OS X Server, see *Mac OS X Server: Getting Started*, which came with your Mac mini (it's also on the Admin Tools disc).  
To learn more about Mac OS X software, see the complete set of documentation on the Apple Server Resources website at [www.apple.com/server/macosx/resources](http://www.apple.com/server/macosx/resources).  
Chapter 1 Ready, Set Up, Go 7 What's in the Box Your Mac mini comes with the following components: Power cord HDMI to DVI Adapter  
Follow the steps on the next several pages to set up your Mac mini. 8 Chapter 1 Ready, Set Up, Go Setting Up Your Mac mini  
Place your Mac mini right side up on a firm surface. Use only the power cord that came with your Mac mini; other power cords may not work. Important:  
Cooling air enters your Mac mini through the gap around the bottom cover and exits through the vent on the back.  
Don't place your Mac mini on a soft surface (such as a blanket or carpet) that interferes with air flow around the bottom cover, and don't block the back vent. Step 1: Plug the power cord into the back of your Mac mini, and then plug the other end into a power outlet. ® HDMI Cool air inlet (around foot) Exhaust vent Chapter 1 Ready, Set Up, Go 9 Step 2: To access the Internet or a network, connect one end of an Ethernet cable to your Mac mini and the other end to a cable modem, DSL modem, or network. ® HDMI Your Mac mini comes with AirPort Extreme technology for wireless networking.  
For information about setting up a wireless connection, choose Help > MacHelp, and search for "AirPort."  
" 10 Chapter 1 Ready, Set Up, Go Step 3: Connect the USB cable from your keyboard and mouse. ® HDMI  
You can connect almost any USB keyboard and mouse. If your keyboard has a USB (d) port, plug your mouse into the USB port on the keyboard. If it doesn't, plug the mouse into a USB (d) port on the back of your Mac mini. Note: Your Mac mini doesn't come with a keyboard or a mouse, and they are not required.  
To set up Mac OS X Server remotely from another computer, see Chapter 4 of *Mac OS X Server: Getting Started*, which came with your Mac mini. Chapter 1 Ready, Set Up, Go 11 You can use Keyboard preferences to change the behavior of the Caps Lock, Control, Option, and Command (x) modifier keys. To open Keyboard preferences, choose Apple ( ) > System Preferences, click Keyboard, then click Modifier Keys and follow the on-screen instructions. If you use a USB keyboard that isn't specifically designed for the Mac OS, it may not have a Command (x) or Option modifier key, which are standard on Apple keyboards. If you have a keyboard from another manufacturer: Â The Windows key (the icon on the key looks like a Windows logo) is equivalent to the Command (x) modifier key on an Apple keyboard. Â The Alt key is equivalent to the Option modifier key on an Apple keyboard. Using a USB mouse or keyboard from another manufacturer may require software drivers. Check the manufacturer's website for the latest software drivers. Using a Wireless Keyboard or Mouse  
If you purchased an Apple Wireless Keyboard or Magic Mouse with your Mac mini, follow the instructions that came with the keyboard and mouse to set them up with your Mac mini. 12 Chapter 1 Ready, Set Up, Go Step 4: Connect a display cable to the Mini-DVI port or Mini DisplayPort.  
Your Mac mini doesn't come with a display, but, if desired, you can connect a display or television that has: Â A Mini DisplayPort connector. Connect directly to the Mini DisplayPort. Â An HDMI connector. Connect directly to the HDMI port. Â A DVI connector. Use the HDMI to DVI adapter that came with your Mac mini to connect to the HDMI port. Â A VGA connector. Use a Mini DisplayPort to VGA adapter to connect to the Mini DisplayPort. Adapters are available at [www.apple.com/store](http://www.apple.com/store) or your local Apple Retail Store. HDMI HDMI port Mini DisplayPort ® HDMI Chapter 1 Ready, Set Up, Go 13 Step 5: Press the power (®) button on the back to turn on your Mac mini. ® ® HDMI Step 6: Configure your Mac mini with Mac OS X Server Assistant.  
The first time you turn on your Mac mini, Mac OS X Server Assistant asks for some basic information that Mac OS X Server needs in order to start up and connect to the network. Be ready to provide the following information the first time you turn on your Mac mini: Â A server administrator account name and password Â Your Mac OS X Server's software serial number Â Detailed network settings, including IP address, subnet mask, and DNS servers 14 Chapter 1 Ready, Set Up, Go Â  
Whether you'll create user and group accounts on your Mac mini, or use accounts from an existing directory service  
For help setting up Mac OS X Server remotely on a Mac mini without a keyboard, mouse, or display, see Chapter 4 of *Mac OS X Server: Getting Started*, which came with your Mac mini.  
For a list of information you need in order to fully configure your Mac mini using Server Assistant, see *Mac OS X Server: Installation and Setup Worksheet on the Mac OS X Server Install disc* on the Apple Server Resources website at [www.apple.com/server/macosx/resources](http://www.apple.com/server/macosx/resources).  
If you already have a Mac with Mac OS X Server version 10.4, 10.5, or 10.6, Server Assistant can help you automatically transfer system settings, service settings, user accounts, files, applications, and other information from your previous Mac to your Mac mini. Use an Ethernet, FireWire, or a wireless connection to transfer information.  
For information about working with these services in Mac OS X Server, see *Mac OS X Server: Getting Started*, which was included with your Mac mini. For detailed information about Mac OS X Server, go to [www.apple.com/server/macosx/resources](http://www.apple.com/server/macosx/resources). Step 7: Customize your desktop and set your preferences. You can easily make your desktop look the way you want using System Preferences, your command center for most settings on your Mac mini. Choose Apple ( ) > System Preferences from the menu bar, or click the System Preferences icon in the Dock.  
For more information, open MacHelp and search for "System Preferences" or for the specific preference you want to change. Chapter 1 Ready, Set Up, Go 15 Setting Up DVD or CD Sharing You can use DVD or CD Sharing to give your Mac mini access to the optical drive in another Mac or Windows computer on the same network. Your Mac mini can use the optical drive in the other computer to: Â View the contents of DVD or CD or install applications (see "Sharing Discs with DVD or CD Sharing" on page 17) Â Reinstall Mac OS X Server (see "Reinstalling Software Using Remote Install Mac OS X" on page 46) Â Run Disk Utility to check or reformat volumes (see "Using Disk Utility" on page 48) The computer with the optical drive can be a Mac with Mac OS X v10.4.11 or later, or a Windows XP or Windows Vista computer. If the Mac has Mac OS X v10.5.5 or later, DVD or CD Sharing is already installed. You can partner with more than one other computer. If the other computer is a Windows computer, or a Mac with a Mac OS X version earlier than 10.5.5, insert the Mac OS X Server Install DVD that came with your Mac mini, and then install the DVD or CD Sharing Setup, which includes software for DVD or CD Sharing, Migration Assistant, and Remote Install Mac OS X: Â If the other computer is a Windows computer, choose "DVD or CD Sharing" from the Install Assistant that starts automatically. Â If the other computer is a Mac, double-click the DVD or CD Sharing Setup package on the Mac OS X Server Install DVD.



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16 Chapter 1 Ready, Set Up, Go Important: After you install the DVD or CD Sharing Setup package on the other Mac, make sure you have the latest software by choosing Apple() > Software Update. Install any available Mac OS X updates.

Using an External Optical Drive For direct access to CDs and DVDs, you can attach an Apple Mac Book Air Super Drive to a USB port on your Mac mini. Getting Additional Information onto Your Mac mini If you want to install third-party applications from a DVD or CD, you can install applications on to your Mac mini or share information using the optical disc drive on another Mac or Windows computer (if DVD or CD Sharing is set up and enabled). Read the next section for more information. Sharing Discs with DVD or CD Sharing You can enable DVD or CD Sharing on a Mac or Windows computer to use the Remote Disc feature of your Mac mini. Remote Disc lets you share the discs you insert into the optical disc drive of the other computer. Some discs, such as DVD movies and game discs, may be copy-protected and therefore unusable through DVD or CD Sharing. Make sure DVD or CD Sharing is enabled on any Mac or Windows computer you want to partner with. For information, see page 16. Chapter 1 Ready, Set Up, Go 17 To enable DVD or CD Sharing, if your other computer is a Mac: 1 Make sure your Mac mini and the other Mac are on the same wireless network. Click the AirPort (Z) status icon in the menu bar to see what network you're connected to. 2 On the other Mac, choose Apple() > System Preferences and then open Sharing. 3 In the Sharing panel, select "DVD or CD Sharing" in the Service list. If you want the user to request permission to share a DVD or CD, select "Ask me before allowing others to use my DVD drive." To enable DVD or CD Sharing, if your other computer is a Windows computer: 1 Make sure your Mac mini and the Windows computer are on the same wireless network. 18 Chapter 1 Ready, Set Up, Go 2 On the Windows computer, open the DVD or CD Sharing control panel.

3 Select "Enable DVD or CD Sharing." "If you want the user to request permission to share a DVD or CD, select "Ask me before allowing others to use my DVD drive." To use a shared DVD or CD: 1 On the other computer, insert a DVD or CD into the optical disc drive. 2 On your Mac mini, select Remote Disc when it appears under Devices in the Finder sidebar. If you see the "Ask to use" button, click it. 3 On the other computer, when prompted, click Accept to allow your Mac mini to use the DVD or CD. 4 On your Mac mini, use the disc as you normally would, once it becomes available. If you try to shut down the other computer or eject the shared DVD or CD while your Mac mini is using it, you'll see a message telling you that the disc is in use. To proceed, click Continue. Chapter 1 Ready, Set Up, Go 19 Shutting Down Your Mac mini To shut down your Mac mini: Â Choose Apple() > Shut Down. To turn it on again, press the power (⏻) button. NOTICE: Shut down your Mac mini before moving it. Moving your Mac mini while the hard disk is spinning can damage the hard disk, causing loss of data or an inability to start up from the hard disk. Putting Your Mac mini to Sleep Mac OS X Server is normally set up to prevent your Mac mini from sleeping because users can't connect to services while the computer sleeps. However, if it suits the services your Mac mini is providing, you can put it to sleep on demand or according to a schedule. To put your Mac mini to sleep, do one of the following: Â Choose Apple() > Sleep from the menu bar. Â Choose Apple() > System Preferences, click Energy Saver, and set a sleep/wake schedule. To wake your Mac mini: Â Press any key on the keyboard. When your Mac mini wakes from sleep, your applications, documents, and computer settings are exactly as you left them. 20 Chapter 1 Ready, Set Up, Go 2 Life with Your Mac mini www.apple.com/server/macosx Mac Help server Read on for an overview of the features and ports of your Mac mini. The Apple website at www.apple.com has links 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 Apple products, on the Apple Support website at www.apple.com/support. Chapter 2 Life with Your Mac mini 23 What's on the Front of Your Mac mini Built-in infrared (IR) receiver Memory access cover Power indicator light 24 Chapter 2 Life with Your Mac mini Built-in infrared (IR) receiver Use an Apple Remote (available separately) with the IR receiver to Meet Solution" on page 41. "Learning More, Service, and Support" on page 54, or go to the Mac mini Support site at www.apple.com/support/macmini. The Mac OS X Server site at www.apple.com/server/macosx. Or search for "Mac OS X Server" in Mac Help. "Why you'll love a Mac" at www.apple.com/getamac/whymac. System Preferences by choosing Apple(K) > System Preferences. Or search for "system preferences" in Mac Help. The Apple support page at www.apple.com/support and search for "sd." The AirPort Support page at www.apple.com/support/airport. Or open Mac Help and search for "AirPort." Mac Help and search for "Bluetooth." Or go to the Bluetooth Support page at www.apple.com/support/bluetooth. Mac Help and search for "printing." Mac Help and search for "FireWire" or "USB." Mac Help and search for "Internet." Mac Help and search for "display." Mac Help and search for "remote." Mac Help and search for "Front Row." Chapter 2 Life with Your Mac mini 29 To learn about Specifications See The Specifications page at www.apple.com/support/specs. Or open System Profiler, by choosing Apple(K) > About This Mac from the menu bar and then clicking More Info. The Apple site at www.apple.com. Apple news, free downloads, and online catalogs of software and hardware Instructions, technical support, and manuals for Apple products The Apple Support site at www.apple.com/support. 30 Chapter 2 Life with Your Mac mini 3 Boost Your Memory www.apple.com/store Mac Help RAM Your Mac mini came with at least 2 gigabytes (GB) of memory on a pair of 1 GB memory modules. You can replace these with a pair of 2 GB or 4 GB memory modules, for a maximum of 8 GB of memory. The following pages show you how to install memory modules in your Mac mini. WARNING: Apple recommends that you have an Apple-certified technician install memory. To arrange for installation, contact an Apple Authorized Service Provider or an Apple Store retail location. Damage you cause to your equipment while installing memory isn't covered by the limited warranty on your Mac mini. Chapter 3 Boost Your Memory 33 Installing Memory Your Mac mini has two memory slots in which you can install a pair of 1 GB, 2 GB, or 4 GB memory modules, for a maximum of 8 GB of memory. For best performance, don't mix sizes; always install two identical memory modules. Memory modules for your Mac mini must meet the following specifications: Â Small Outline Dual In-Line Memory Module (SO-DIMM) format Â 1066 MHz, PC3-8500, DDR3 compliant (also called DDR3 1066) Â Unbuffered and unregistered You can purchase Apple memory from an Apple Authorized Reseller, the online Apple Store at www.apple.com/store, or your local Apple Retail Store. WARNING: Always shut down your Mac mini and remove the power cord before installing memory. Do not install memory while your Mac mini is plugged in. Step 1: Turn off your Mac mini. Choose Apple() > Shut Down. Step 2: Disconnect all cables. Disconnect the power cord and all other cables from your Mac mini. 34 Chapter 3 Boost Your Memory Step 3: Remove the bottom cover. Lay your Mac mini upside down on a soft cloth or towel, and then rotate the bottom cover counter-clockwise to the unlocked position.



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Unlocked Press on the cover to pop up the opposite side, and then remove the cover.

Press here Lift here Chapter 3 Boost Your Memory 35 Step 4: Remove the original memory modules.

Gently spread the clips at the ends of the top memory module just enough to let the free edge pop up. Retainer clips Pull the module out of the slot.

Repeat to remove the second, bottom module. 36 Chapter 3 Boost Your Memory Step 5: Install the new modules.

Carefully press the notched edge of the new memory module into the bottom slot while keeping the opposite edges lightly raised. Notch

Press down on the raised edge until the clips snap into place. Repeat to install the top memory module. Chapter 3 Boost Your Memory 37 Step 6: Replace the bottom cover. Replace the bottom cover using the alignment dot to place it in the unlocked position.

Align the dots Rotate the cover clockwise to lock it in place. Locked WARNING: Don't connect the power cord or turn on your Mac mini until you replace the bottom cover. Never operate your Mac mini without the cover in place. 38 Chapter 3 Boost Your Memory Step 7: Reconnect the cables.

Reconnect the power cord and any other cables you disconnected.

Step 8: Check the new memory. Press the power button to turn on your Mac mini. When you see the Mac OS desktop, choose Apple (>) About This Mac and check that the reported amount of memory is correct. If the reported memory size isn't correct, or if your Mac mini repeatedly sounds three tones, it's having trouble recognizing memory modules. If this happens, shutdown your Mac mini, verify the module specifications against the requirements listed on page 34, and then repeat the memory installation instructions to make sure the modules are installed correctly.

If you still have problems, remove the memory and consult the support information that came with the memory, or contact the vendor who provided the memory. Chapter 3 Boost Your Memory 39 4 Problem, Meet Solution [www.apple.com/support](http://www.apple.com/support) Mac Help help

Occasionally, you may have problems while working with your Mac mini. Read on for troubleshooting tips to try when you have a problem. You can also find more troubleshooting information in Mac Help, or on the Mac mini Service & Support website at [www.apple.com/support/macmini](http://www.apple.com/support/macmini).

If you experience a problem working with your Mac mini, there's usually a simple and quick solution. If you encounter a problem, try to make a note of what you did before the problem occurred.

This can help you narrow down the possible causes of the problem and then find the answers you need. Things to note include: Â

The applications you were using when the problem occurred. Problems that occur only with a specific application may indicate that the application is incompatible with the version of Mac OS X Server installed on your computer. Â Any software that you recently installed. Â Any new hardware (such as a peripheral) that you connected.

WARNING: Don't attempt to open your Mac mini, except to install memory. If your Mac mini needs service, see "Learning More, Service, and Support" on page 54 for information about how to contact an Apple Authorized Service Provider or Apple for service. Your Mac mini doesn't have any user-serviceable parts, except the memory. Chapter 4 Problem, Meet Solution 43 Problems That Prevent You from Using Your Mac mini If your computer won't respond or the pointer won't move Â

Makesure the mouse and keyboard are connected. Unplug and then plug in the connectors, making sure they're secure.

Â If the problem persists, try to force problem application to quit. On an Apple keyboard, hold down the Option and Command (x) keys and then press the Esc key. On other keyboards, hold down the Windows and Alt keys and then press the Esc key. If a dialog appears, select the frozen application and click Force Quit. Then save your work in any open applications and restart your Mac mini to be sure the problem is entirely cleared up.

Â Press and hold the power (⏻) button on the back of your Mac mini for five seconds to shut it down. Â

Unplug the power cord from your Mac mini. Then plug the power cord back in and press the power (⏻) button to turn your Mac mini on.

If the problem reoccurs when you use a particular application, check with the application's manufacturer to see if the application is compatible with the version of Mac OS X Server installed on your Mac mini. For support and contact information about the software that came with your computer, go to [www.apple.com/guide](http://www.apple.com/guide) or to the manufacturer's website. If the problem occurs frequently, try reinstalling your system software (see "Reinstalling

Software Using Remote Install Mac OS X" on page 46). 44 Chapter 4 Problem, Meet Solution If your Mac mini freezes during startup or you see a flashing question mark Â

Wait a few seconds. If your Mac mini doesn't start up after a delay, shut it down by pressing and holding the power (⏻) button for about 5 seconds. Then hold down the Option key and press the power (⏻) button again to start up your Mac mini. Keep holding down the Option key until your Mac mini starts up, then click the arrow under the icon of the hard disk you want to use as your startup disk. Â After your Mac mini starts up, open System Preferences and click Startup Disk.

Select a local Mac OS X Server System folder. Â If the problem occurs frequently, you may need to reinstall your system software

(see "Reinstalling Software Using Remote Install Mac OS X" on page 46).

If your Mac mini doesn't turn on or start up Â Makesure the power cord is plugged into your Mac mini and into a functioning power outlet. Â

Press the power (⏻) button and immediately hold down the Command (x), Option, P, and R keys on an Apple keyboard until you hear the startup sound a second time.

This resets the parameter RAM (PRAM). On other keyboards, press the power (⏻) button and immediately hold down the Windows, Alt, P, and R keys. Â

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 Mac mini. Â

If you still can't start up your Mac mini, see "Learning More, Service, and Support" on page 54 for information about contacting Apple for service. Chapter 4 Problem, Meet Solution 45 Reinstalling Software Using Remote Install Mac OS X If you set up DVD or CD Sharing (see page 16), you can use Remote Install Mac OS X on a

computer with an optical disc drive to do any of the following tasks on your Mac mini: Â Reinstall Mac OS X Server and other software that came with your Mac mini Â

Reset your password Â Use Disk Utility to check or repair the Mac mini hard disk To use Remote Install Mac OS X: 1 Insert the Mac OS X Server Install DVD into the optical disc drive of the other computer. 2 If the other computer is a Mac, open Applications/Utilities/Remote Install Mac OS X.

(Unless the other Mac already has Mac OS X v10.

5.5, you might need to install this application.) On Windows, choose "Remote Install Mac OS X" from the Install Assistant. 46 Chapter 4 Problem, Meet Solution 3 Read the introduction and click Continue. 4 Select the installation disc you want to use, and click Continue.

5 Select a network connection: AirPort, if you're using an AirPort network, or Ethernet, if you're using an Ethernet network. Click Continue. 6

Restart your Mac mini and hold down the Option key as it starts up, until you see a list of available startup disks. 7 Choose a startup disk. 8

Click Continue in Remote Install Mac OS X.

9 If you chose AirPort as your network in step 5, on your Mac mini, choose your AirPort network from the pop-up list.

If the network is secure, you're prompted for a password. You can enter a private network name by choosing the ellipsis (⋮).



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..)andtypingthename. 10 IfyouchoseAirPortasyournetworkinstep5,whenyouseetheAirPortstatusicon indicating signal strength, click Continue in Remote Install Mac OS X. 11 On your Mac mini, click the arrow button beneath the installer icon. When your Mac mini restarts, you can do any of the following: • Install Mac OS X Server. Follow the on-screen instructions.

• Click Continue in Remote Install Mac OS X. • In Remote Install Mac OS X, click Continue.

• When you finish, quit Mac OS X Installer on your Mac mini. 4 On the other computer, click Quit to exit Remote Install Mac OS X.

• If you have an Ethernet cable connected, disconnect it. 2 Restart your Mac mini while holding down the D key. • Press the Return key or click the right arrow button. • To use Network Diagnostics: 1 Choose Apple() > System Preferences. •

Follow the on-screen instructions. • To enter PPPoE settings: 1 Choose Apple() > System Preferences.

2 Click Network. • 4 Choose an interface for the PPPoE service from the Ethernet pop-up menu. • 7 Click Apply to make the settings active. Network

Connections Make sure the Ethernet cable is plugged into your Mac mini and into the network. Check the cables and power supplies to your Ethernet hubs and routers. If you have two or more computers sharing an Internet connection, make sure your network is set up properly. You need to know whether your ISP provides only one IP address or a different IP address for each computer. 52 Chapter 4 Problem, Meet Solution If your ISP provides only one IP address, then you must have a router capable of sharing the connection, also known as network address translation (NAT) or "IP masquerading." For set-up information, see the documentation provided with your router or ask the person who set up your network. You can use an AirPort base station to share one IP address among multiple computers.

For information about using an AirPort base station, check Mac Help or visit the AirPort Extreme website at [www.apple.com/support/airport](http://www.apple.com/support/airport).

If you can't resolve the issue using these steps, contact your ISP or network administrator. Problems with AirPort Extreme Wireless Communication

If you have trouble using AirPort Extreme wireless communication: • Make sure the computer or network you're trying to connect to is running and has a

wireless access point. • Make sure you've properly configured the software according to the instructions that came with your base station or access point. •

Make sure you're 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 might improve reception. • Check the AirPort (Z) status menu in the menu bar.

Upto four bars appear, indicating signal strength. If this signal strength is weak, try changing your location. •

See AirPort Help (choose Help > Mac Help, and then choose Library > AirPort Help from the menu bar). Also see the instructions that came with the wireless device. Chapter

4 Problem, Meet Solution 53 Keeping Your Software Up to Date You can connect to the Internet and automatically download and install the latest free

versions of software, drivers, and other enhancements from Apple. When you're reconnected to the Internet, Software Update checks to see if any updates are available for your computer. You can set your Mac mini to check for updates periodically, and then you can download and install updated software. To check for updated software: 1 Choose Apple() > System Preferences. 2 Click the Software Update icon and follow the instructions on the screen. •

Search for "Software Update" in Mac Help for more information.

• Go to [www.apple.com/server/macosx](http://www.apple.com/server/macosx) for the latest information about Mac OS X Server. Learning More, Service, and Support Your Mac mini doesn't have any user-serviceable parts, except the memory. 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, on-screen help, System Profiler, or Apple Hardware Test.

If you want a certified technician to install additional memory, contact an Apple Authorized Service Provider or an Apple Retail Store. 54 Chapter 4 Problem, Meet

Solution Online Resources For online service and support information, go to [www.apple.com/support](http://www.apple.com/support).

Choose your country from the pop-up menu. You can search the Apple Care Knowledge Base, check for software updates, or get help from Apple's discussion forums.

On-screen Help You can find answers to many of your questions, as well as instructions and troubleshooting information, in Mac Help. Choose Help > Mac Help. System Profiler To get information about your Mac mini, use System Profiler. System Profiler shows

you what 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 Care Service and Support

Your Mac mini comes with 90 days of technical support and one year of hardware repair warranty coverage at an Apple Store retail location or an Apple-authorized repair center, such as an Apple Authorized Service Provider (AASP). You can extend your coverage by purchasing the Apple Care Protection Plan. For information, visit [www.apple.com/support/products](http://www.apple.com/support/products) or visit the website address for your country listed in the table. Apple also offers expert support for Mac OS X Server. Beyond the scope of the

complimentary 90-day support, these products offer assistance within-dept technical issues for one full year. Chapter 4 Problem, Meet Solution 55 Mac OS X Server Software Support delivers consultative telephone and email support for networking and workflow issues in Mac OS X Server environments, including support for command-line tools and mixed-platform integration. Mac OS X Server Software Support also includes all of the features of Apple Care Help Desk Support, described 3

below. Choose from three levels of support--Select, Preferred, or Alliance. Apple Care Help Desk Support gives you a year of expertise for your internal help 1 2 desk. This product provides priority telephone and email support to two designated contacts in your organization. Covered products include Apple Remote Desktop,

Final Cut Studio, Final Cut Server, Aperture, Logic Studio, Mac OS, and the graphical user interface in Mac OS X Server.

You also receive a subscription to Apple Care Help Desk Tools, a library of Mac OS installation and hardware diagnostic discs that are updated quarterly. 1 2

Telephone numbers and hours of operation may vary and are subject to change; local telephone fees may apply. Access to web-

based resources requires the use of a compatible Internet service provider; fees may apply. 3.

Details on support coverage and eligible Apple technologies are described in the Mac OS X Server Software Support and Apple Care Help Desk Support plans at: [www.apple.com/support/products/macosxserver\\_sw\\_supt.html](http://www.apple.com/support/products/macosxserver_sw_supt.html) [www.apple.com/support/products/helpdesk](http://www.apple.com/support/products/helpdesk).

html 1. 2. 56 Chapter 4 Problem, Meet Solution If you need assistance, Apple Care 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 purchase date 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 United States Australia Canada (English)

(French) Ireland New Zealand United Kingdom Phone 1-800-275-2273 (61) 1-300-321-456 1-800-263-3394 (353) 1850946191 00800-7666-7666

(44) 08442090611 Website [www.apple.com](http://www.apple.com).



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com/uk/support Telephonenumberaresubjecttochange,andlocalandnationaltelephoneratesmay apply.Acompletelistisavailableontheweb:

www.apple.com/support/contact/phone\_contacts.html Chapter 4 Problem, Meet Solution 57 Locating Your Product Serial Number

UseanyofthesemethodstofindyourMacminiserialnumber: Â ChooseApple()fromthemenubar,andchooseAboutThisMac.

Clicktheversion numberbeneaththewords"MacOSXServer"tocyclethroughtheMacOSXServer versionnumber,thebuildversion,andtheserialnumber. Â OpenSystemProfiler(in/Applications/Utilities/)andclickHardware. Â LookonthebottomofyourMacmini. 58 Chapter 4 Problem, Meet Solution 5 Last, but Not Least www.apple.

com/environment Mac Help ergonomics Foryoursafetyandthatofyourequipment,followtheserulesforhandlingand cleaningyourMacminiandforworkingmorecomfortably.Keeptheseinstructions handyforreferencebyyouandothers. NOTICE:

Incorrectstorageoruseofyourcomputermayvoidthemanufacturer's warranty. Important Safety Information WARNING:

Failuretofollowthesesafetyinstructions couldresultinfire,electric shock,orotherinjuryordamage. Proper

handlingSetupyourMacminionastableworksurfacethatallowsfor adequateaircirculationunderandaroundthecomputer.Donotoperateyour Macminionapilloworothersoftmaterial,asthematerialcanblocktheairflowvents. Neverpushobjectsintotheventilationopenings. Water and wet locationsKeepyourMacminiawayfromsourcesofliquid,suchas drinks,washbasins,bathtubs,showerstalls,andsoon.ProtectyourMacminifrom dampnessorwetweather,suchasrain,snow,andfog. Power specifications: Â Frequency:50to60Hz Â Line Voltage:100to240VAC Chapter 5 Last, but Not Least 61 Hearing damagePermanenthearinglossmayoccurifearbudsorheadphonesare usedathighvolume.

Youcanadaptovvertimeoahighervolumeofsoundthatmay soundnormalbutcanbedamagingtoyourhearing.Ifyouexperiencinginginyour earsormuffledspeech,stoplisteningandhaveyourhearingchecked.Thelouderthe volume,thelesstimeisrequiredbeforeyourhearingcouldbeaffected.Hearingexperts suggestthattoprotectyourhearing: Â Limittheamountoftimeyouuseearbudsorheadphonesathighvolume. Â

Avoidturningupthetimetoblockoutnoisysurroundings. Â Turnthetimedownifyoucan'thearpeoplespeakingnearyou. High-risk activitiesThiscomputersystemisnotintendedforuseintheoperation ofnuclearfacilities,aircraftnavigationorcommunicationssystems,airtrafficcontrol systems,orforanyotheruseswherethefailureofthecomputersystemcouldleadto death,personalinjury,orsevereenvironmentaldamage. Important:

Electricalequipmentmaybehazardousifmisused.Operationofthis product,orsimilarproducts,mustalwaysbesupervisedbyanadult.Donotallow childrenaccesstotheinteriorofanyelectricalproductanddonotpermitthemto handleanycables.

WARNING: Neverpushobjects ofanykindintothisproductthroughtheventilation openingsinthe case.Doingsomaybedangerousanddamageyourcomputer. 62 Chapter 5 Last, but Not Least Do Not Make Repairs Yourself YourMacminidoesn'thaveanyuser-serviceableparts,exceptformemory.Donot attempttoremoveorreplaceanycomponentsotherthanmemorymodules.Ifyour Macminineedsservice,consulttheserviceandsupportinformationthatcamewith yourMacminiforinformationabouthowtocontactanAppleAuthorizedService ProviderorAppleforservice.

IfyoutrytoinstallorreplaceanycomponentinyourMacminiotherthanmemory modules,youriskdamagingyourequipment,andsuchdamageisn'tcoveredbythe limitedwarrantyonyourMacmini. Important Handling Information NOTICE: Failuretofollowthesehandlinginstructions couldresultindamagetoyour

Macminiorotherproperty. Operating environmentOperatingyourMacminioutsidetheserangesmay affect performance: Â Â Â Operating temperature:50°to95°F(10°to35°C) Storage temperature:-40°to116°F(-40°to47°C) Relative humidity:5%to95%(noncondensing) Maximum operating altitude:10,000feet(3048meters) Chapter 5 Last, but Not Least 63 Turning on your Mac miniNeverturnonyourMacminiunlessallofitsinternaland externalpartsareinplace.OperatingyourMacminiwhenpartsaremissingmaybe dangerousandmaydamageyourMacmini. Carrying your Mac miniBeforeyouliftorrepositionyourMacmini,shutitdownand disconnectallcablesandcordsconnectedtoit.

IfyoucarryyourMacminiinabagor briefcase,makesurethattherearenolooseitems(suchaspaperclipsorcoins)that couldaccidentallygetinsidethecomputerthroughventopeningsorgetstuckinside a port. Using connectors and portsNeverforceaconnectorintoaport.Whenconnectinga device,makesuretheportisfreeofdebris,thattheconnectormatchestheport,and thatyouhavepositionedtheconnectorcorrectlyinrelationtotheport. Storing your Mac miniIfyouaregoingtostoreyourMacminiforanextendedperiod oftime,keepitinacoollocation(ideally,71°Ffor22°C). Cleaning your Mac miniWhencleaningtheoutsideofyourMacmini,firstshutdown andunplugit.Thenuseadamp,soft,lint-freeclothtocleanthecomputer'sexterior. Avoidgettingmoistureinanyopenings.Donotsprayliquiddirectlyonthecomputer. Donotuseaerosolsprays,solvents,orabrasives thatmightdamagethefinish. 64 Chapter 5 Last, but Not Least Understanding Ergonomics Herearesometipsforsettingupahealthyworkenvironment.

Keyboard Whenyouusethekeyboard,yourshouldersshouldberelaxed.Yourupperarmand forearmshouldformanapproximate rightangle,withyourwristandhandinroughly astraightline.

Changehandpositionsoftentoavoidfatigue.Somecomputerusersmightdevelop discomfortintheirhands,wrists,orarmsafterintensiveworkwithoutbreaks.Ifyou begintodevelopchronicpainordiscomfortinyourhands,wrists,orarms,consulta qualifiedhealthspecialist. Mouse

Positionthemouseatthesameheightasthekeyboardandwithinacomfortablereach. Chair

Anadjustablechairthatprovidesfirm,comfortablesupportisbest.Adjusttheheight ofthechairsoyourthighsarehorizontalandyourfeetareflatonthefloor.Thebackof thechairshouldsupportyourlowerback(lumbarregion).Followthemanufacturer's instructionsforadjustingthebackresttofityourbodyproperly.

Youmighthavetoraiseyourchairsothatyourforearmsandhandsareattheproper angletothekeyboard.Ifthismakesitimpossibleto restyourfeetflatonthefloor,use afootrestwithadjustableheightandtiltomakeupforanygapbetweenthefloorand yourfeet.Oryoucanlowerthedesktoeliminatetheneedforafootrest.Another optionistouseadeskwithakeyboardtraythat'slowerthantheregularworksurface. Chapter 5 Last, but Not Least 65 Display

Arrangethedisplaysothatthetopofthescreenisslightlybeloweyelevelwhenyou're sittingatthekeyboard.

Thebestdistancefromyoureyestothescreenisupto you, althoughmostpeople seemtoprefer18to28inches(45to70cm).

Positionthedisplaytomimizeglareandreflectionsonthescreenfromoverhead lightsandnearbywindows.Ifpossible,useatiltabledisplaystand.Thestandletsyou settthedisplayatthebestangleforviewing,helpingtoreduceoreliminateglarefrom lightingsourcesyoucan'tmove. Shoulders relaxed Forearms and hands in a straight line Forearms level or tilted slightly Lower back supported Thighs tilted slightly 1828 in.



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(4570 cm) Top of the screen at or slightly below eye level (You may need to adjust the height of your display by raising or lowering your work surface.)  
Screen positioned to avoid reflected glare Clearance under work surface Feet flat on the floor or on a footrest  
More information about ergonomics is available on the web: [www.apple.com/about/ergonomics](http://www.apple.com/about/ergonomics) 66 Chapter 5 Last, but Not Least Apple and the Environment  
Apple Inc. recognizes its responsibility to minimize the environmental impact of its operations and products. More information is available on the web:  
[www.apple.com/environment](http://www.apple.com/environment) Chapter 5 Last, but Not Least 67 Regulatory Compliance 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.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2)  
l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de  
compromettre le fonctionnement du dispositif. 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. Important: Changes or modifications to this product not  
authorized by Apple Inc. could void the EMC compliance and negate your authority to operate the product.

@@@ @@@ @@@ @@@ @@@ 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.) Location of EMC Number  
To view the EMC number for this device, remove the bottom cover and look next to the memory installation illustrations. For help removing the cover, see Chapter 3.  
Wireless Radio Use This device is restricted to indoor use when operating in the 5.15 to 5.

25 GHz frequency band. Cet appareil doit être utilisé à l'intérieur. Exposure to Radio Frequency Energy The radiated output power of this device is well below the FCC  
and EU radio frequency exposure limits. However, this device should be operated with a minimum distance of at least 20 cm  
between its antennas and a person's body, and the antennas used with this transmitter must not be colocated or operated in  
conjunction with any other antenna or transmitters subject to the conditions of the FCC Grant. 69 FCC Bluetooth Wireless Compliance  
The antenna used with this transmitter must not be colocated or operated in conjunction with any other antenna or transmitter subject to the conditions of the FCC Grant.  
Singapore Wireless Certification Bluetooth Industry Canada Statement This Class B device meets all requirements of the Canadian interference-  
causing equipment regulations. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Taiwan Wireless  
Statements Industry Canada Statement Complies with the Canadian ICES-003 Class B specifications. Cet appareil numérique de la classe Best conforme à la norme  
NMB-003 du Canada. This device complies with RSS 210 of Industry Canada. Bluetooth Europe--EU Declaration of Conformity  
This wireless device complies with the R&TTE Directive. Europe--EU Declaration of Conformity See [www.apple.com/euro/compliance](http://www.apple.com/euro/compliance). Taiwan Class B Statement  
Russia VCCI Class B Statement Korea Warning Statements 70 External USB Modem Information When connecting your Mac mini to the phone line using an  
external USB modem, refer to the telecommunications agency information in the documentation that came with your modem.

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 the electronic equipment manufacturer to promote energy efficient products. Reducing energy consumption of products  
saves money and helps conserve valuable resources. This computer is shipped with power management enabled with  
the computer set to sleep after 10 minutes of user inactivity. To wake your computer, click the mouse or trackpad button or press any key on the keyboard.  
For more information about ENERGY STAR®, visit: [www.energystar.gov](http://www.energystar.gov) Türkiye 71 Disposal and Recycling Information Battery Disposal Information  
Dispose of batteries according to your local environmental laws and guidelines. This symbol indicates that your product must be disposed of  
properly according to local laws and regulations. When your product reaches its end of life, contact Apple or your local authority to learn about recycling options.  
For information about Apple's recycling program, go to [www.apple.com/environment/recycling](http://www.apple.com/environment/recycling). Brazil--Disposal Information:  
California: The coin cell battery in the optional Apple Remote contains perchlorates. Special handling and disposal may apply.  
Refer to: [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate) Deutschland: Dieses Gerät enthält Batterien. Bitte nicht in den Hausmüll werfen.  
Entsorgen Sie dieses Gerütes am Ende seines Lebenszyklus entsprechend der maßgeblichen Regelungen.  
Nederlands: Gebruikte batterijen kunnen worden ingeleverd bij de chemokarofijne speciale batterijcontainer voor orkine chemisch afval (kca) worden gedeponeerd.  
Taiwan: Brasil: Informação sobre eliminação e reciclagem O símbolo indica que este produto e/ou sua bateria não devem  
ser descartados no lixo doméstico. Quando decidir descartar este produto e/ou sua bateria, faça-o de acordo com as leis e  
diretrizes ambientais locais. Para informação sobre o programa de reciclagem da Apple, pontos de coleta e telefones de informações,  
visite [www.apple.com/br/environment](http://www.apple.com/br/environment). European Union--Disposal Information The symbol above means that according to local laws and  
regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take  
it to a collection point designated by local authorities. Some collection points accept products for free.

These separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a  
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