User Manual

FCC ID: RNAMP-100

HomePod — Wire -less Network Digital Music Player with FM Tuner

Inside the digital music player is a mini PCI module with FCC ID to be RNAMP-100 for OEM integration.

Copyright

Trademarks

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital

device pursuant to Part 15 of the FCC Rules. These limits are designed to provide

reasonable protection against radio interference in a commercial environment. This

equipment can generate, use and radiate radio frequency energy and, if not installed and

used in accordance with the instructions in this manual, may cause harmful interference to

radio communications. Operation of this equipment in a residential area is likely to cause

interference, in which case the user, at his own expense, will be required to take whatever

measures are necessary to correct the interference.

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the

equipment.

Note:

The antenna(s) used for this equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility

of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm(8 inches) during

normal operation.

CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN

55022/A1 Class B, and EN 50082-1. This meets the essential protection requirements of the

European Council Directive 89/336/EEC on the approximation of the laws of the member

states relation to electromagnetic compatibility.

Safety Precautions

Follow all warnings and instructions marked on the product.

Slots and openings on the device are provided for ventilation. To protect it from

overheating, these openings must not be blocked or covered.

Do not use or store HomePod in the environment that exceeds temperature and humidity

specifications. Do not place HomePod near a radiator or heat register or in a built-in

installation unless adequate ventilation is provided.

Before cleaning, unplug HomePod from wall outlet. Do not use liquid cleansers or aerosol

cleansers. Use a damp cloth for cleaning.

Do not place cords or cables where they may be walked on or tripped over.

Be sure to comply with any applicable local safety standards or regulations.

General-purpose cables are provided with HomePod. The use of any other cables or

requirements mandated by local authority is user's responsibility.

Cables attached to devices in different locations with different power sources and

grounding may cause hazardous voltage. Consult a qualified electronic consultant before

installing the product to check if this phenomenon exists and, if necessary, take

corrective action.

Never touch un-insulated telephone wires or terminals unless the line has been

disconnected.

Avoid using telephone equipment or installing the product during an electrical storm.

Never install HomePod, or any kind of telephone jacks, lines, network cables, or power

connections in wet locations.

Never spill liquid of any kind on HomePod.

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1.0 Welcome

Thank you for purchasing a Macsense HomePod. Your HomePod gives you access to digital music stored in your computer from anywhere in the house or office.

About HomePod

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2.0 Before You Start

2.1 Package Contents

Prior to setting up your HomePod, make sure your HomePod package

includes the following items:

　　HomePod Unit

　　Power Adapter

　　Remote Control

　　Ethernet Cable

　　Stereo Audio Cable

　　Installer CD

　　Quick Start Guide

　　User Manual

2.2 System and Other Requirements

　　802.11b or g Access Point or Wireless Router

　　Macintosh G3 or PC Pentium III

　　Mac OS 9 and X or Windows 98Me2000XP

3.0 Getting to Know Your HomePod

3.1 Hooking up your HomePod

HomePod streams digital music files stores in your computer, over the

local network (either by wired Ethernet or over wireless Wi-Fi network).

Most of the time, HomePod will be used in a wireless setting. A typical

wireless network setup is to have your computer connected to a

wireless router (or an access point) to form a wireless network. And
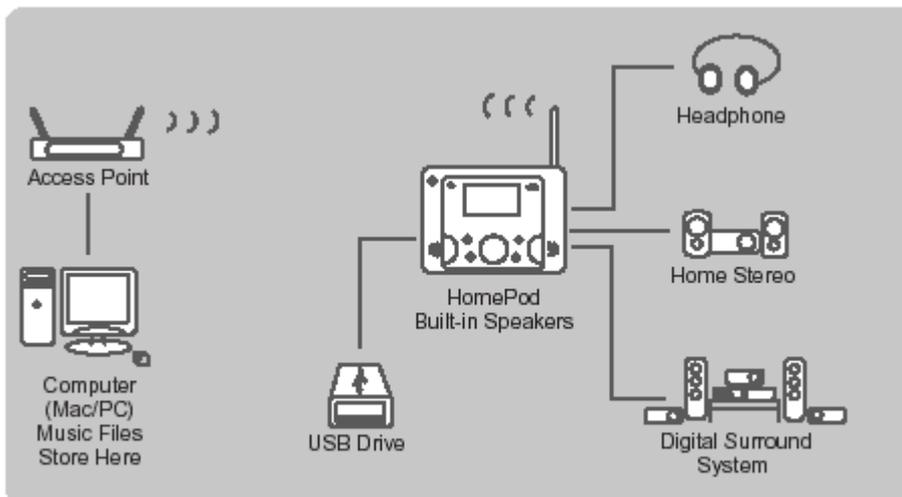
HomePod also connects to this wireless network.

Figure 1: HomePod System Diagram

Your computer stays on the desk, while your HomePod can be placed anywhere in the house or office where the wireless network has coverage. The music can then be played through HomePod's built-in stereo speaker, or to attached headphones, home stereo system, or high-end digital surround sound system.

Song files are stored on your computer and is called a "music library". Each computer requires a server program to be installed to make the music library available to the HomePod.

Multiples computers can each have one or more music libraries, and a HomePod will have access to all these media libraries. Conversely, multiple HomePods can stream from the same music library, or from different media libraries from multiple computers. The possibility is boundless and flexible.
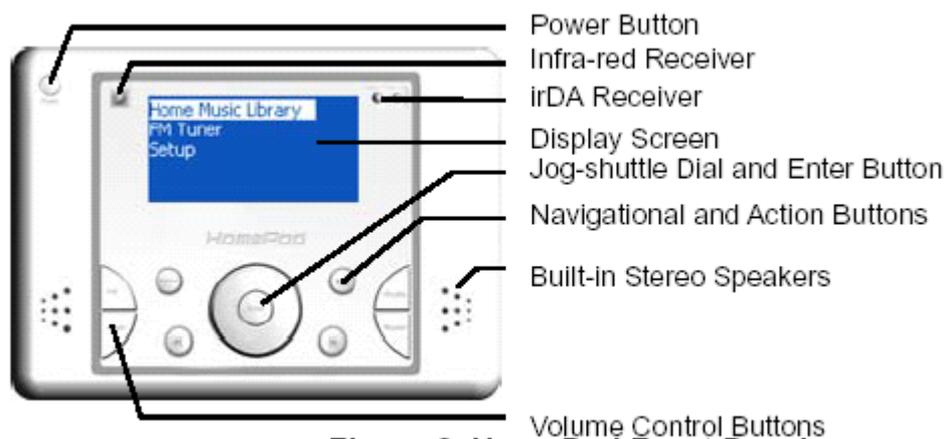
3.2 Front Panel

Figure 2. HomePod Front Panel

3.3 Side Connectors

HomePod is equipped with a rich set of input and output ports for interfacing with other systems.

Figure 3. HomePod Side Connectors

Wi-Fi Antenna	For connecting to the Wi-Fi 802.11b wireless network. Raise the antenna for better reception.
Reset Button	For resetting the HomePod unit during an unexpected crash. To reset, use a paper clip pin to poke into the hole once. Same affect as unplugging and re-plugging the power cord..
USB Port	For connecting to Flash Memory Stick or USB Hard Drive. (Optional function.)
Ethernet Port	This 10/100Mbps Fast Ethernet Port is for establishing a wired connection with your network. If you don't have a wireless network in place, you can also connect HomePod to a wired network.
Power	For plugging in the power cord.
FM Radio Antenna	The FM Radio Antenna is a string of wire protruding out from within the unit. Extend the wire open to get the best radio station reception.
Headphones Jack	For connecting to a standard walkman-style stereo headphone.
Audio RCA Jacks	For connecting to a home stereo system. Left and Right jacks need to used at the same time.
Coaxial Output	For connecting to high-end digital surround sound system. Only one of the other is used.
SPDIF Output	

4.0 Software Installation For PC

A small server software, called *HomePod Music Server*, is required to

be installed in each computer that has music files to share to HomePod.

Use the Installer CD and follow these instructions to complete the

software installation.

4.1 Java Virtual Machine (VM)

HomePod Music Server is based on Java, so each computer requires
Java VM to be installed first.

For Windows PC (98/Me/2k/XP), use the *Java VM Installer* in the
HomePod CD to install the Java Runtime Environment (JRE). The
HomePod CD includes the current version of JRE at the time of
production. You can also go to Sun's Official Java site to download and
install the latest release, http://www.java.com/en/download/ .

For Mac, Java VM is built-in into the OS and therefore need not be
installed separately.

4.2 HomePod Music Server Install For PC
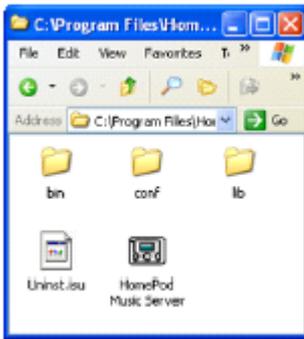
After your computer is Java-capable, continue with the HomePod Music
Server installation. On the PC, insert the HomePod CD and run the
HomePod Music Server Installer.

After server software is installed, you should see a new directory
created in the C:\Program Files\HomePod\, like below, and a new entry
in the Start->Programs->HomePod->Music Server->HomePod Music
Server Control.

5.0 Server Configuration for PC

Click on the HomePod Music Server icon or select

Start->Programs->HomePod->Music Server->HomePod Music Server. A

window will show up as below:

Figure 1: Music Server Status Monitor

This is the *HomePod Music Server Status Monitor* window. It is an

application that allows you to monitor and configure the server settings.

The window will get minimized to the taskbar if its window is closed, but

will continue to run in the background. Press **Configure…** button to

open the *Music Services Preference* window.

Figure 2: Music Services Preference

The first field "Music Library Name", define a specific name for your

music collection that will be displayed on the HomePod. Some good

names are, "John's Music Collection", "Bedroom Collection", or "Living

Room Music Library".

Presently, HomePod Music Server presents two services to serve your

music: by *Selected Music Folders* or by *iTunes Music Library*. (Other services will be added to HomePod Music Server in the near future.) To activate the service of your choice, first click on the checkbox before the name of the service. You can also activate both services at once.

5.1 Music Folders Service

This is the most compatible and generic way of music file serving. This method serves all the music files in the directory that you specify. You can specify more than one folder, and all its contents will get served to the HomePod.

When you click on the **Configure…** button, you will be presented with

the following window:
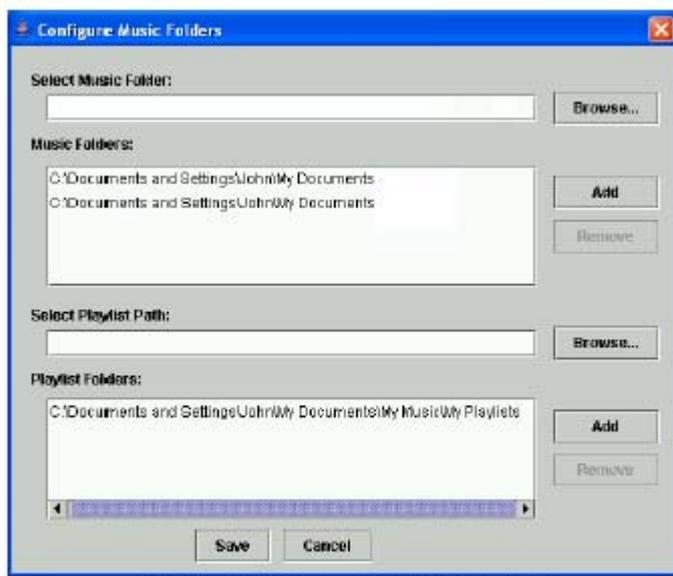
Figure 3: Configuring Music Folders

The windows presents two sections. In the first section, use the "Browse…" button to locate the folder that contains your music files. This may be your C:\My Documents\My Music\ directory, or any folder with your music files that you'd like to share. The music folder can be anywhere in your hard disk, and can include other sub-folders. Do the same to locate your Playlist folders. Press the Save button to save your settings.

5.2 iTunes Music Library Service

If you use Apple iTunes to manage your music files, then you should select this method as the preferred way of serving your music files. When you click on the **Configure…** button, you will be presented with the following window:

Figure 4: Configuring iTunes Music Library

Locate the "iTunes Music Library.xml" file in the iTunes folder, and press the Select button.

When all configurations are done, return to the Status Monitor window and press the "Start" button to activate the music server. To stop the music server, click the Stop button.

Figure 5: Music Server Running

6.0 HomePod Basic Operation

6.1 Turning HomePod on and off

To turn on the HomePod, press and release the Power key. You should be prompted with a startup screen that displays "HomePod Wireless Audio Services".

To turn off the HomePod, press and hold the button for 4 seconds.

6.2 HomePod Display Screens

After HomePod is fully boot-up, it will stay in the Main Screen. The Main Screen will automatically detect and list music libraries found on computers on the network, listing one line for each music library. If no library is detected, then the first line will display "Searching for Media Library".

Main Screen

Music Category Screen

FM Tuner Screen

The Playing Mode

Network Setup Screens
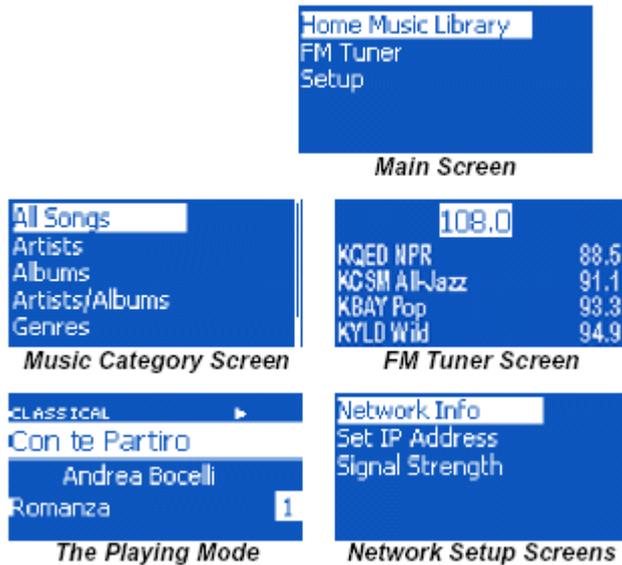
The Category Mode is designed to facilitate easy location of songs in a sea of music files in a music library. A typical Music Library can be hundred or thousands of songs long. By using the category screens, you are able to find your songs easily in two to three steps. Songs are categorized in groups by Song names, artists, albums, artists/albums, genres, and playlists. These categories are exactly what you have categorized using music managers of your choice, such as iTunes, MusicMatch, MediaPlayer, or WinAmp.

The Playing Mode is displayed when a song is being played by HomePod. This screen gives a lot of information on the song that is being played. In the top left corner, it displayed the Genre. The second line aligned left displays the name of the song. The third line aligned right is the artist of the song. The forth line aligned left is the album of the song, and alight right is the track number of this song in the album.

FM Tuner Screen allows you to tune to your local FM radio stations when you're not listening to your network music. Your can define up to 20-preset radio stations so you can jump to them easily with navigational keys. To turn the frequency up and down, turn the rotating dial clockwise or counter-clockwise. To jump to the next or previous preset stations, use the Next or Prev buttons.

The Network Setup Screens are a collection of screens that facilitate monitoring of network settings on HomePod. In the Network Info sub-screen, you can check the present IP, subnet mask, gateway IP address of the HomePod. Use these info to troubleshoot when your

HomePod can not connect to the network. The Signal Strength
sub-screen shows the SSID and signal strength of the connected
wireless router or access point. If HomePod is connected to the network
by Ethernet cable, then these info would be irrelevant.

6.3 HomePod Controls

Content Navigational buttons. The music library is organized as a tree
structure. Use the following buttons to traverse the list easily.

Use the rotating dial to move any list up and down.

Click the ENTER button to get into a list, or MENU button to come out of
a list.

Functional buttons.

To play a song, press the ENTER button or the PLAY button when the
song is displayed and selected on the list.

To pause a playing song, click on the Pause button. Press again to
resume play.

To jump to the next song while a song is playing, click on the Next
button. When the Next button is pressed, the present song will stop and
next song will start.

To jump to the beginning of a song while it is playing, click on the Prev
button.

If you're using the built-in speaker or the headphones port, to increase
the volume, press the + button; to decrease the volume, press the –
button.,

Playing Mode buttons.

To shuffle a list of songs, while a list of songs is playing in the playing
mode, press the shuffle button to shuffle the songs on the list in random
order.

To repeat a song or list of songs, press the repeat button while a song is
playing. If the song is in a playing list, then the whole list of songs will
repeat after the present list is over. If a song is played singly, then that
song will repeat after it is played.

7.0 Advance Operations

On the Mac/PC, use "remote.jar" as the remote control emulator. This
remote emulator has LCD that we planned to use to communicate with
the irDA receiver on the HomePod. You use "remote.jar" to control
HomePod behavior from your Mac/PC.

Appendix

Reference

Taking Care of Your HomePod

(Failure to follow these instructions may result in personal injury or

damage to your HomePod.)

Important:

Use only a soft, dry cloth to clean the outside of your HomePod and

any peripherals.

Do not use any solvents, chemicals, or cleaning solutions containing

alcohol, ammonia, or abrasives.

Do not allow liquids to spill on the unit.

Do not use sprays near your HomePod.

It is best to keep HomePod out of direct sunlight or other sources of

extreme heat.

Avoid placing HomePod in a setting where air cannot circulate around

the unit.

Troubleshooting

Your HomePod is designed and built to provide you with trouble-free

performance without the need for service. If it does not appear to be

functioning correctly, please follow these troubleshooting steps:

Make sure all connectors are properly attached.

Make sure the adaptor is firmly seated power port.

If you see this on the display	You should:
SSID is Null Cause: HomePod is not connected to the wireless network.	Check the wireless router or access point to make that it is working properly. Check to see if you have basic TCP/IP settings setup correctly, such as IP, subnet mask, gateway IP, SSID, WEP keys.
IP Address is Null	…

If this happens:	You should:
Music Library doe not get detected.	Make sure the HomePod Music Server is running on the PC/Mac.
The audio sounds distorted.	Confirm if the same song sounds any better when played on the computer. Perhaps the song was just encoded badly from the source.
The audio level is too low	Make sure Mute button is not turned on.
No song title or artist name displays	Make sure Mute button is not turned on.

Contacting Macsense Tech Support

For additional information in solving problems with your HomePod,

contact Macsense tech support at 1 800 642-8860.

Technical Support Hours: 9am – 4:30pm PST

Customer Service and Technical Support are also available at

www.macsense.com.

Technical Specifications

Dimensions . . . .

Weight . . . .

Inputs/Outputs Antenna. . . . . RF

SMB connector Power. . . . . average, (⊕————●————⊝   )

Audio output . . . .

HomePod Limited consumer Warranty

Macsense Connectivity ("Macsense") warrants all HomePod products sold

("Products") to be free of defects in material and workmanship, subject to the

following conditions.

The duration of Macsense's warranty with respect to Macsense HomePod

product is limited to one (1) year from the date of sale to the original consumer

purchaser.

No other express warranties are made with respect to any Product. All implied

warranties, including warranties of merchantability and fitness for a particular

purpose are limited to the warranty period set forth above. The warranty is not

transferable and applies only to the original consumer purchaser of the Product.

Macsense will, as its sole obligation under this warranty, replace or repair, at its

option any Product that does not conform to this warranty. Under no

circumstances will Macsense be liable for any incidental or consequential damages under this warranty or any implied warranties.

Macsense will not be responsible for damage resulting from any (i) deviation from Macsense's operating instructions as printing in Macsense's catalog or on any packaging, labels or other literature provided with a Product, (ii) installation of a product in a manner which is inconsistent with Macsense's written instructions, (iii) alteration or modification of a Product, (iv) misuse, (v) neglect, (vi) abuse, (vii) accident, (viii) normal wear and tear, (ix) commercial use, (x) service by anyone other than a Macsense authorized repair facility, or (xi) other improper application, installation or operation of the Product.

How to Get Service

To obtain warranty service during the first thirty (30) days after the date of purchase, you must return the defective Product with the original receipt to the original place of purchase. To obtain warranty service during the remainder of the warranty period, you must contact Macsense by phone at (650)552-9110 or by fax at (650)552-9250. When contacting Macsense by fax, please include a letter detailing your complaint and provide a daytime phone number where you can be reached. If further clarification or additional information is required from Macsense, you may call us.

If warranty service is needed at any time during the warranty period, the purchaser will be required to furnish a sales receipt/proof of purchase indicating the date of purchase, amount paid and place of purchase. Customers who fail to provide such proof of purchase will be charged for the repair of any Product.

How state law relates to the warranty:

Some states do not allow limitations on how long implied warranties last, or the exclusion or the limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights that may vary from state to state.

NO PERSON IS AUTHORIZED BY MACSENSE TO MODIFY OR ADD TO THIS LIMITED WARRANTY.

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