

Product Guide

SONOS



CONNECT

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Sonos CONNECT

The Sonos CONNECT™ is designed to be used with an external amplifier. It contains both analog and digital outputs so you can easily connect it to your existing audio equipment.

- Use a CONNECT to listen to music in a room where you already have an amplifier, such as your home theater system or the stereo system in your family room.
- Use a CONNECT to listen to music in your home office where you already have a computer or a pair of powered speakers.
- Use a CONNECT if you have a distributed audio system that is driven from an amplifier in one central location with speaker wires home-run to this central location.

New to Sonos?

It takes just a few steps to get your Sonos system up and running—simply follow the setup instructions packaged with your CONNECT. Once you've got it set up, you can add additional Sonos products any time.

Adding to an existing Sonos system?

Sonos can be easily expanded room by room. You can turn directly to **Adding to an Existing Sonos System** if you are adding this CONNECT to an existing Sonos system.



Your Home Network

To access Internet music services, Internet radio, and any digital music stored on your computer or Network-Attached Storage (NAS) device, your home network must meet the following requirements:

Home network requirements

Note: Your network must have a high-speed Internet connection, as the Sonos system is designed to provide you with free, online software updates. Your Sonos system must be registered to receive these updates so **be sure to register** during the setup process. We do not share your e-mail address with other companies.

- High-speed DSL/Cable modem, or fiber-to-the-home broadband connection for proper playback of Internet-based music services. (If your Internet service provider only offers Satellite Internet access, you may experience playback issues due to fluctuating download rates.)
- If your modem is not a modem/router combination and you want to take advantage of Sonos' automatic online updates, or stream music from an Internet-based music service, **you must install a router in your home network**. If you do not have a router, purchase and install one before proceeding. If you are going to use the Sonos Controller App on an Android™ or iOS device, or you are setting up Sonos wirelessly, you will need a *wireless* router.

Note: Sonos communicates over a 2.4GHz home network supporting 802.11 b/g/n wireless technology. 5GHz networks are not supported in a completely wireless Sonos setup.

- Connect a Sonos BRIDGE, BOOST™ or player to your router if:
 - You have a larger home where the WiFi performance isn't reliable and you want to strengthen the wireless performance of your Sonos system.
 - Your WiFi network is already in high demand with streaming video and web surfing and you want to create a separate wireless network exclusively for your Sonos speakers.
 - Your home network is 5GHz only (not switchable to 2.4GHz).
- For best results, you should connect the computer or NAS drive that contains your personal music library collection to your home network router using an Ethernet cable.

The Sonos App

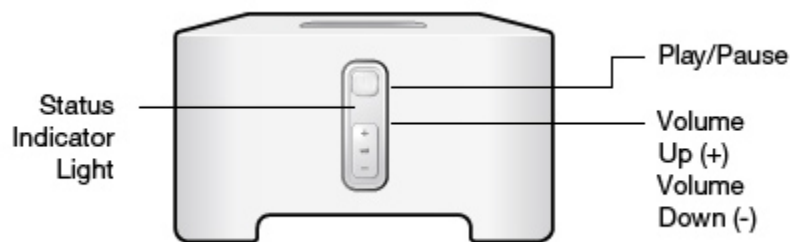
You can use the free Sonos app with any compatible device, including:

- **Sonos app (Android)**—Android 2.2 and higher; certain features require later versions. (Standard wireless setup is only supported on Android 2.3 or 4.0 and higher.)
Touch the **Play Store** or **Market** button on your Android device to download the free Sonos app from Google Play.
- **Sonos app (iOS)**—iPhone, iPad and iPod touch running iOS 7.0 or later; certain features may require later versions.
Touch the **App Store** button on your iPhone, iPod touch or iPad to download the free Sonos app, or download the application from iTunes®. (If you download from iTunes, you will need to sync before you see the Sonos logo display on your device.)

- **Sonos app (PC)**—Windows® XP SP3 and higher; certain features require later versions. (Standard wireless setup is only supported on Windows 7 and higher.)
Download from our website at www.sonos.com/support/downloads.
- **Sonos app (Mac)**—Macintosh® OS X 10.7 or later
Download from our website at www.sonos.com/support/downloads.

Note: Sonos CONTROL has been discontinued, but it's compatible with your new Sonos product.

CONNECT Front



On/Off

Your Sonos system is designed to be always on; the system uses minimal electricity whenever it is not playing music. To quickly stop streaming audio in all rooms, select **Pause All** from the **Rooms** menu. To stop streaming audio in one room, press the **Play/Pause** button on the CONNECT.

Status indicator

Indicates the current status. During normal operation the white light is dimly lit. If desired, you can turn off the white light from **Room Settings**. See **Player Status Indicators** for a complete list of status indications.

Play/Pause

Toggles between playing and pausing the audio in this room (defaults to restarting the same music source when pressed unless a different source is selected).

- Press once to start or stop streaming audio
- Press twice to skip to the next track (if applicable to the selected music source)

Volume up (+) Volume down (-)

Press these buttons to adjust the volume up and down.

CONNECT Back



Ethernet ports (2)

You can use an Ethernet cable (supplied) to connect to a router, computer, or additional network device such as a network-attached storage (NAS) device.

LED indicators:

- Flashing Green (network activity)
- Yellow (link connection)

AC power (mains) input (100 - 240 VAC, 50/60 Hz)

Use only the supplied power cord to connect to a power outlet (using a third party power cord will void your warranty).

Analog audio in

Use a standard RCA audio cable to connect the audio outputs from a separate audio component such as a CD player, to the Sonos CONNECT's analog audio inputs.

Analog audio out (fixed/variable)

Use a standard RCA audio cable to connect the Sonos product's analog audio outputs to the audio inputs on a separate audio component, such as an amplifier or your home theater receiver.

TOSLINK® digital audio out

You can use a TOSLINK optical audio cable to connect the Sonos CONNECT's TOSLINK digital audio output to the audio inputs on a separate audio component, such as an amplifier or your home theater receiver.

Coaxial digital audio out

You can use a digital coaxial cable to connect the Sonos product's coaxial digital audio output to the audio inputs on a separate audio component, such as an amplifier or your home theater receiver.

Adding to an Existing Sonos System

Once you've got your Sonos system set up, you can easily add more Sonos products any time (up to 32). Use the Sonos CONNECT's audio outputs to connect it to a home theater, computer, powered speakers, or amplifier.

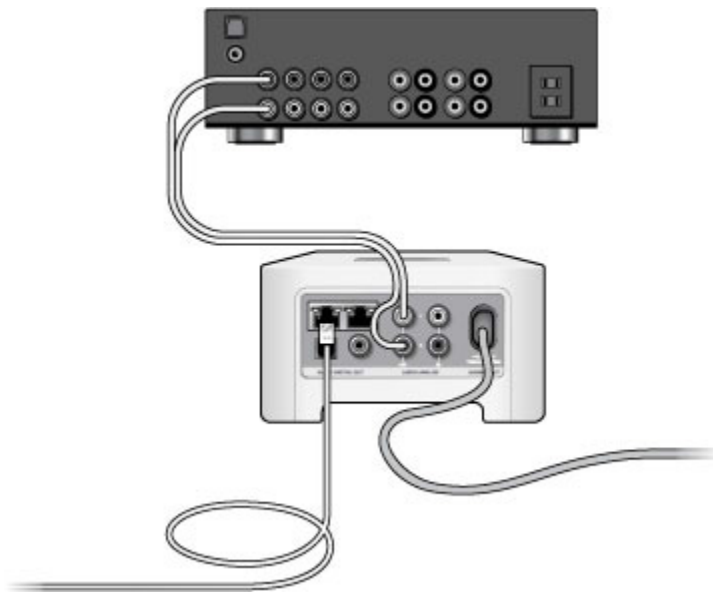
If your house has structured (built-in) wiring, you can make a wired connection to the additional Sonos products. If you don't have structured wiring, our built-in wireless technology is ideal for you.

1. Attach the power cord and plug in the Sonos CONNECT.

The **Audio** indicator (green) and the **Player status indicator** (white) will begin to flash.

2. Choose one of the following options:

Connect to a home theater or amplifier



- If you have *digital inputs* on your home theater or amplifier, you can use either a TOSLINK® optical audio cable or a digital coaxial cable to connect the Sonos CONNECT's digital output to the digital input on the receiver.
- If you have *analog inputs* on your home theater or amplifier, use a standard RCA audio cable to connect the Sonos CONNECT's analog audio output to the audio inputs on the receiver.
- Select the proper input channel on the receiver. See **Controlling the volume from your home theater or amplifier** to adjust volume settings.

Connect to a computer or powered speakers

- **If you are connecting to your computer:** You will need a stereo mini to RCA Y-adapter audio cable (one 1/8-inch stereo miniplug to dual RCA male connectors) to connect the Sonos product's analog audio output to the computer's audio input.
- **If you are connecting to powered speakers:** You may need a Y-adapter audio cable (one 1/8-inch stereo miniplug to dual RCA male connectors) to connect the computer's speakers to the audio outputs on the Sonos product. If your speakers have a male 1/8-inch stereo plug, you will need to attach a female-to-female coupler between the speaker plug and the Y-adapter audio cable.

3. If you are making a wireless connection, skip this step and continue on to step 4. If you are making a wired connection, connect a standard Ethernet cable from your router or another Sonos product (or a live network wall plate if you have built-in wiring) to one of the Ethernet switch connections on the back of the new Sonos product.
4. Choose one of the following options:
 - Using a handheld Sonos controller: Select **Add a Player or SUB** from the **Settings** menu and follow the on-screen prompts to add this product to your Sonos system.
 - Using the Sonos Controller App for Mac or PC: Select **Add a Player or SUB** from the **Manage** menu and follow the prompts to add the new product to your Sonos system.

Thick walls, 2.4 GHz cordless telephones, or the presence of other wireless devices can interfere with or block the wireless network signals from your Sonos system. If you experience difficulty after positioning a Sonos product, try one or more of the following resolutions—relocate the Sonos product; change the wireless channel your music system is operating on; connect a Sonos product to your router if your setup is currently wireless.

Line-In

You can easily stream an external source such as a CD player or portable music player through Sonos using the audio-in connections on your Sonos product. The device will be automatically detected as soon as you plug it in.

- Use a standard RCA cable to plug an external source like a CD player into the analog **Audio In** connections on the back of your Sonos CONNECT.
- If you are connecting a portable music player to the Sonos CONNECT, you will need a 1/8 inch mini-stereo to RCA audio cable instead. Plug the mini-stereo end into the portable device and the RCA end into the **Audio In** connection on the Sonos product.

Using the Sonos app on a mobile device

- To play music from this line-in source, select **Line-In** from the Sonos music menu, select the source, and select **Play Now**.
- To change the name of this device, select **Room Settings** from the **Settings** menu. Select the Sonos product this source is connected to, and then touch **Line-In Source Name**. Select a new name from the list, or type a unique name.
- To change the line-in level, select **Room Settings** from the **Settings** menu. Select the Sonos product this source is connected to, and then touch **Line-In Source Level**. Select a new level.

Using the Sonos app on a Mac or PC

- To play music from this source select **Line-In** from the **MUSIC** pane, click ▼ next to the music source, and select **Play Now**.
- To change the settings for this device:
 - Select **Manage** -> **Settings** (PC) or **Sonos** -> **Preferences** -> **Room Settings** (Mac).
 - Select the Sonos product your Airport Express is connected to from the **Room Settings for** drop-down list.
 - Click the **Line-In** tab and update the settings.

A default (typical) line-in level is automatically assigned when you select a source name, but if the volume sounds too low, you can select a higher line level for this device. (You may experience sound distortion at higher volume levels if you set the level too high.)

Line-in encoding settings

When you have line-in music sources attached to a Sonos product, line-in encoding determines how Sonos will encode the data coming in from these sources. Your Sonos system defaults to *automatic* in order to provide the optimal playback experience. Sonos recommends you do not change this default. However, if you decide to make a change, we recommend the following usage guidelines:

Use **Uncompressed** if:

- You want optimal performance with home theaters.
- You want to produce the highest quality sound for your Sonos system (this selection requires more network bandwidth than compressed audio.)

Use **Compressed** if:

- You are connecting more than 4 rooms wirelessly.
- You are in an environment with heavy wireless interference and are experiencing dropouts.

To change the line-in encoding setting, select one of the following options:

- Using a handheld Sonos controller: From the **Settings** menu, select **Advanced Settings** -> **Audio Compression**.
- Using the Sonos Controller for PC: Select **Manage** -> **Settings** -> **Advanced**.
- Using the Sonos Controller for Mac: Select **Sonos** -> **Preferences** -> **Advanced**.

Line-Out

Controlling the volume from your home theater or amplifier

To control the volume exclusively from your home theater or amplifier, you can change the line-out level on the Sonos CONNECT to **Fixed** by selecting one of the following options:

- Using a handheld Sonos controller: Select **Room Settings** from the **Settings** menu. Select the Sonos product attached to the receiver. Select **Line-Out Level**, and choose **Fixed**.
- Using the Sonos Controller for PC: Select **Manage** -> **Settings**. Select the Sonos product attached to the receiver. Choose **Fixed** from the **Line-Out Level** drop-down on the **Basic** tab.
- Using the Sonos Controller for Mac: Select **Sonos** -> **Preferences** -> **Rooms Settings**. Select the Sonos product attached to the receiver, and then choose **Fixed** from the **Line-Out Level** drop-down on the **Basic** tab.

Note: When you change the line-out level to **Fixed** on your Sonos CONNECT you will not be able to adjust the volume or the equalization settings using a Sonos controller.

Controlling the volume from your Sonos system

1. Adjust your home theater or amplifier's volume to typical listening volume.
2. If the line-out level is not currently set to **Variable**, you will need to change it:
 - Using a handheld Sonos controller: Select **Room Settings** from the **Settings** menu. Select the Sonos product attached to the receiver. Select **Line-Out Level**, and choose **Variable** from the **Line-Out Level** drop-down on the **Basic** tab.
 - Using the Sonos Controller for PC: Select **Manage** -> **Settings**. Select the Sonos product attached to the receiver, and then choose **Variable** from the **Line-Out Level** drop-down on the **Basic** tab.
 - Using the Sonos Controller for Mac: Select **Sonos** -> **Preferences** -> **Rooms Settings**. Select the Sonos product attached to the receiver, and then choose **Variable** from the **Line-Out Level** drop-down on the **Basic** tab.
3. Use a Sonos controller to adjust the volume on your Sonos system so you can hear music. This may be at the high end of the volume scale.
4. If desired, you can readjust the volume on your home theater system or amplifier so that the volume range for the controller falls within your typical listening range.

Playing Music

Make a selection from the Sonos music menu on your mobile device or from the **MUSIC** pane on a Mac or PC.

Radio

Sonos includes a radio guide that provides immediate access to thousands of free Internet radio stations and broadcast programs. You can easily find radio from all over the world—music, news, and variety programming, including archived shows and podcasts.

To select an Internet radio station, simply select **Radio** and choose a station.

Music services

A music service is an online music store or online service that sells audio on a per-song, per audiobook, or subscription basis. Sonos is compatible with several music services - you can visit our website at **www.sonos.com/music** for the latest list. (Some music services may not be available in your country. Please check the individual music service's website for more information.)

If you are currently subscribed to a music service that's compatible with Sonos, simply add your music service user name and password information to Sonos as needed and you'll have instant access to the music service from your Sonos system.

1. To add a music service, touch **Add Music Services** from the Sonos music menu.
2. Select the Sonos-compatible music service you would like to add.
3. Select **Add Account**, and then follow the on-screen prompts. Your login and password will be verified with the music service. As soon as your credentials have been verified, the music service displays on the Sonos music menu.

Free music service trials are available in some countries. (Please check the individual music service's website for more information.) If there is a music service trial visible on the **Music Services** menu, simply touch it to select. Touch **Add Account** -> **I'm new to [music service]**, and then follow the prompts to activate the music trial. After the trial period is up, you will need to subscribe to the music service to keep the music playing.

Local music library

The Sonos system can play music from any computer or network-attached storage (NAS) device on your home network where you have shared music folders. During the setup process, you are guided through the process of accessing your local music library (such as your iTunes library). Over time, you may wish to add or remove folders from this list.

Note: We recommend using the Sonos Controller for Mac or PC to add shared folders. For more information, please visit our website at <http://faq.sonos.com/manage>.

To make changes to your shared folders list, select the **Settings** menu from a handheld Sonos controller and then choose one of the following options:

- To add a new music folder to Sonos, select **Manage Music Library-> Music Library Setup -> Add New Share** on a handheld controller.
- To remove a music folder, select **Manage Music Library-> Music Library Setup**. Touch the share you wish to remove and then select **Remove**.

The Sonos system indexes your music folders so you can view your music collection by categories (such as artists, albums, composers, genres, or tracks.) If you add new music to a folder that is already indexed, simply update your music index to add this music to your Sonos music library.

- To update your music index, touch **Settings -> Manage Music Library -> Update Music Index Now**.
- If you'd like your music library to update automatically each day, open the Sonos Controller app on your Mac or PC. Select **Manage -> Music Library Settings** and click the **Advanced** tab. Check **Library Updates** and select an update time.

Wireless iTunes playback

You can select and play music and podcasts stored on any iOS device that's on the same wireless network as your Sonos products. Playback is perfectly synchronized, in any or every room of your home. Simply choose **On this iPad**, **On this iPhone**, or **On this iPod touch** from the Sonos app on your iOS device to make audio selections.

Wireless playback from Android devices

You can select and play music stored on any Android device that's on the same wireless network as your Sonos products. Playback is perfectly synchronized, in any or every room of your home. Simply choose **On this Mobile Device** from the Sonos app on your Android smartphone or tablet to make audio selections.

Google Play Music (Android devices)

You can play music to your Sonos system directly from the Google Play Music app on any Android device. This feature is available for both Standard and All Access Google Play Music customers.

To play music directly from the Google Play Music app to your Sonos system, you must have both the Google Play Music app and the Sonos Controller App installed on your mobile device.

Simply open the Google Play Music app and connect to a Sonos room or room group to start the music.

Player Status Indicators

Indicator Lights	Player State	Sonos Product	Additional Information
Flashing white	Powering up	BRIDGE, BOOST, CONNECT, SUB, CONNECT:AMP, DOCK, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	
Solid white (<i>dimly lit</i>)	Powered up and associated with a Sonos system (normal operation)	BRIDGE, BOOST, CONNECT, SUB, CONNECT:AMP, DOCK, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	If desired, when the product is in normal operation, you can turn the white status indicator light on or off from Room Settings . (The SUB and any players set to surround reflect the same setting as the player they are paired with.)
Solid white (<i>brightly lit</i>)	Touch control(s) active	PLAY:5 (gen2)	Brightens when touch controls are activated and remains at full brightness for the duration of contact.
Flashing green	Powered up, not yet associated with a Sonos system Or, WAC (wireless access configuration) join ready	BRIDGE, BOOST, CONNECT, SUB, CONNECT:AMP, DOCK, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	For a SUB, this may indicate the SUB is not yet paired with a player.
Slowly flashing green	Surround audio is off or SUB audio is off	PLAY:1, PLAY:3, PLAY:5 (gen2), SUB	Applicable for player configured as a PLAYBAR surround speaker, or for a SUB paired with a PLAYBAR
Solid green	Volume set to zero or muted	CONNECT, CONNECT:AMP, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	
Flashing orange	During SonosNet setup, this occurs after a button press while the product is searching for a household to join.	BRIDGE, BOOST, CONNECT, SUB, CONNECT:AMP, DOCK, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	

Indicator Lights	Player State	Sonos Product	Additional Information
Rapidly flashing orange	Playback / Next Track failed	CONNECT, CONNECT:AMP, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	Indicates either playback or next track was not possible
Solid orange	During wireless setup, this occurs while the Sonos open access point is temporarily active. If you are not setting up your Sonos system, this may indicate warning mode.	CONNECT, SUB, CONNECT:AMP, PLAY:1, PLAY:3, PLAY:5, PLAYBAR	If the orange light is on AND the player's volume level automatically reduces, this indicates the player is in warning mode. • Press the Pause button to stop the audio • For Sonos products with a vent opening (SUB, CONNECT:AMP), check to make sure it's not blocked • Check the room temperature to make sure it's less than 104°F/ 40° C • If the player is in direct sunlight, provide shade • Allow the player to cool for several minutes and then press Play to restart the audio • If the problem does not resolve, please contact Customer Support

Important Safety Information

Warning: Do not open Sonos products as there is a risk of electric shock. Under no circumstances should Sonos products be repaired by anyone other than an authorized Sonos repair center, as this will invalidate the warranty. Please contact Sonos Customer Support for more information.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry soft cloth. Household cleaners or solvents can damage the finish on your Sonos products.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
8. Protect the power cable from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
9. Only use attachments/accessories specified by the manufacturer.

10. Unplug this apparatus during lightning storms or when unused for long periods of time.
11. Refer all servicing to Sonos qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cable or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
12. The Mains plug should be readily available to disconnect the equipment.
13. **Warning:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
14. Do not expose apparatus to dripping or splashing and do not place objects filled with liquids, such as vases, on the apparatus.

Caution: To avoid damage to speakers, turn off the external amplifier before unplugging your Sonos CONNECT.

Specifications

Feature	Description
Audio	
Sound Quality	THD+N<0.009%, 20Hz-20kHz
Line In	Analog (RCA), auto-detecting
Line Out	Analog (RCA), digital (optical and coaxial)
Music Access	
Audio Formats Supported	Support for compressed MP3, AAC (without DRM), WMA without DRM (including purchased Windows Media downloads), AAC (MPEG4), AAC+, Ogg Vorbis, Apple Lossless, Flac (lossless) music files, as well as uncompressed WAV and AIFF files. Native support for 44.1kHz sample rates. Additional support for 48kHz, 32kHz, 24kHz, 22kHz, 16kHz, 11kHz, and 8kHz sample rates. MP3 supports all rates except 11kHz and 8kHz. Note: Apple “Fairplay”, WMA DRM and WMA Lossless formats not currently supported. Previously purchased Apple “Fairplay” DRM-protected songs may be upgraded.
Music Services Supported	Sonos works seamlessly with most music services, including Apple Music™, Deezer, Google Play Music, Pandora, Spotify and Radio by TuneIn, as well as downloads from any service offering DRM-free tracks. Service availability varies by region. For a complete list, see http://www.sonos.com/music.
Operating Systems (for stored files)	Windows XP SP3 and higher; Macintosh OS X 10.6 or later; NAS (network-attached storage) devices supporting CIFS
Internet Radio Supported	Streaming MP3, HLS/AAC, WMA

Feature	Description
Album Art Supported	JPEG, PNG, BMP, GIF
Playlists Supported	Rhapsody, iTunes, WinAmp, and Windows Media Player (.m3u, .pls, .wpl)
Networking	
Wireless Connectivity	Connects to your home WiFi network with any 802.11 b/g/n, 3x3 MIMO, dual-band (2.4GHz/5GHz) router.
SonosNet™ Extender	Functions to extend and enhance the power of SonosNet, a secure AES encrypted, peer-to-peer wireless mesh network dedicated exclusively for your Sonos system to reduce WiFi interference.
Network Bridging	2-port switch allows Ethernet devices to connect through SonosNet
Internet connectivity	Internet connection required for access to Internet radio stations, online music services and software updates. (DSL, cable modem or LAN-based high-speed Internet connection required.) Internet functionality may require payment of separate fee to a service provider; local and/or long distance telephone charges may apply.
General	
Power Supply	100 - 240 VAC, 50/60 Hz, auto-switchable
Front Panel Buttons	Volume and Play/Pause
Front Panel LED Indicators	Audio and player status indicators
Dimensions (H x W x D)	2.91 x 5.35 x 5.51 in (74 x 136 x 140 mm)
Weight	1.5 lbs. (.69 kg)
Operating Temperature	32° to 104° F (0° to 40° C)
Storage Temperature	4° to 158° F (-20° to 70° C)
Finish	Light gray/high quality polycarbonate material

* Specifications subject to change without notice.

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- Ask us a question at <http://www.sonos.com/emailsupport>.

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