SONOS

Connect:Amp

Product Guide

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Sonos Connect:Amp

The Sonos Connect:Amp includes a built-in state-of-the-art digital amplifier that can power large or small speakers, allowing you to enjoy superior audio quality in every room.

- Includes a multi-port Ethernet switch to enable direct connections to routers, computers, or other Sonos products.
- Includes analog audio inputs with digital encoding so that music from an external audio source (such as a CD player or portable MP3 player), can be connected to one Connect:Amp and played by all the other Sonos products in your system.
- Works seamlessly with the complete range of Sonos products.

New to Sonos?

Download the app from the app store on your mobile device. Open the app and we'll guide you through setup. If you're using a computer, get the app at **www.sonos.com/support/downloads**.

For the latest system requirements and compatible audio formats, go to **http://faq.sonos.com/specs**.

Already have a Sonos?

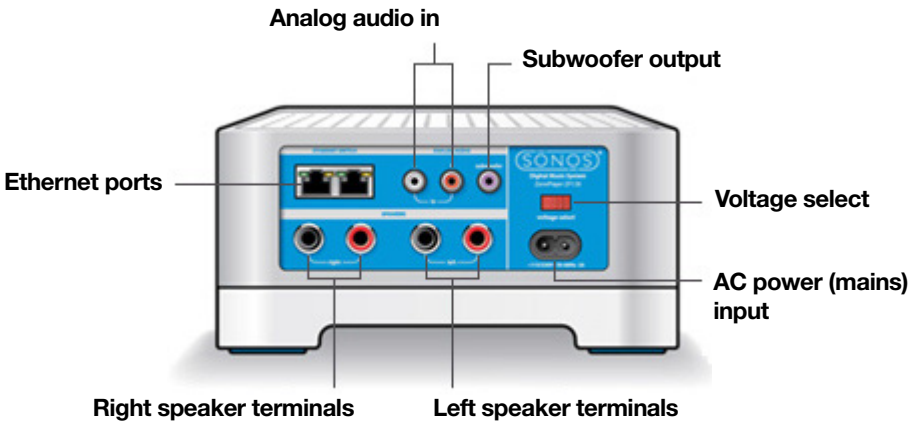
Sonos can be easily expanded room by room. You can turn directly to **Add to an existing Sonos system** if you are adding this Connect:Amp to an existing Sonos system.

Explore Connect:Amp

Controls

+ −	**Volume Up (+)** **Volume Down (-)**	Press to adjust the volume. **Note:** You can also use the app.
⏯	**Play/Pause**	• Press *once* to play or pause music. • Press *twice* to skip to the next track (if applicable to the selected music source. • Press *three times* to skip to the previous track. • Press and hold to add the music playing in another room. **Note:** You can't skip or go to the previous track when listening to radio stations.
	Status light	Indicates the status. For more information, see **http://faq.sonos.com/led**.

Connector panel



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:** • Green (link connection) • Flashing Yellow (network activity)
Right speaker terminals	Use high-quality speaker wire to connect the right speaker to the Connect:Amp.
Left speaker terminals	Use high-quality speaker wire to connect the left speaker to the Connect:Amp.
Voltage select	100 – 120V~ / 220 – 240V~ 50 – 60 Hz Select the appropriate voltage setting for your country.
AC power (mains) input	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	You may use a standard RCA audio cable to connect the Connect:Amp's analog audio inputs to the audio outputs from a separate audio component, such as a CD player or a portable music player.
Subwoofer output **Note:** If you disconnect your subwoofer, make sure to also disconnect the subwoofer's cable from the Connect:Amp output.	You may connect a powered subwoofer to this output using a standard RCA cable. The system will detect when a cable is connected to the subwoofer output and adjust the crossover frequency automatically.

Play music

Open the Sonos app and tap to play your music.

- **Radio by TuneIn**. Select from more than 100,000 free internet radio stations, podcasts, and shows.
- **Music services**. Explore and manage your music services—add your own or try something new.
- **Music stored on your mobile device**. Play music you've downloaded to your phone or tablet.
- **Music library**. Play music stored on your computer or any Network-Attached Storage (NAS) device.

For a full list of the music choices available in your country, go to **www.sonos.com/music**. For more information about playing music, check out our mobile app product guide at **www.sonos.com/guides**.

Add 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 rooms).

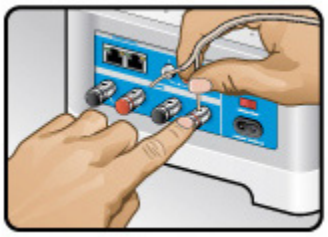
If your house has structured (built-in) wiring, you can make a wired connection to the additional Sonos products. If you don't, our built-in wireless technology is ideal for you.

1. Attach desired speakers.
   - Your speaker's power rating should be at least 75W for 8 Ohm speakers, and at least 150W for 4 Ohm speakers. Do not connect speakers rated at less than 4 Ohms.
   - Use your thumb or finger to firmly push the spring-loaded speaker connector post inward to reveal the connection hole.
   - Insert the stripped end of the speaker wire into the hole, and then release. The stripped portion should be caught firmly in the connector post.

Note: Connect the **red** (+) and **black** (-) terminals from each speaker to the corresponding terminals on the Sonos Connect:Amp. Mismatching of polarities will result in weak central sound, and a distorted sense of sound direction.

When making connections, ensure that none of the strands of your speaker wire come in contact with an adjoining terminal on the rear panel.

- Repeat to install the other speaker wires.



- If your speakers have banana connectors, you can insert the plugs directly into the banana jacks on the back of the Connect:Amp instead.

2. Attach the power cord and plug into a wall outlet—make sure the *Voltage Switch* on the back of the Connect:Amp is set to the proper position for your country before applying power.

After a few moments, the **Status indicator** will begin to flash green (if this Sonos product was previously connected to another Sonos system, the Status indicator may be solid white instead.)

3. Choose one of the following options:
   - On a mobile device, go to ••• > **Settings** > **Add a Player or Sub** and follow the prompts.
   - On a Mac or PC, go to **Manage** > **Add a Player or Sub** and follow the prompts.

Thick walls, 2.4 GHz cordless telephones, or the presence of other wireless devices can interfere with or block the wireless network signals from Sonos. 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.

Use line-in

You can connect an external source like a portable music player to any Sonos player that has a line-in connection. The source will be automatically detected as soon as you plug it in.

To a portable music player: Use a 1/8 inch mini-stereo to RCA audio cable—plug the mini-stereo end into the portable device and the RCA end into the **Audio In** connection on the Sonos player.

To an external source like a CD player: Plug a standard RCA cable into the analog **Audio In** connections on the back of your Sonos player.

Play music

- On a mobile device, select **Browse** > **Line-In** and choose the line-in device.
- On a Mac or PC, select **Line-In** from the **MUSIC** pane. Click ▼ next to the music source and choose **Play Now**.

Change the settings

1. Choose one of the following:
   - On a mobile device, go to ••• > **Settings** > **Room Settings**. Choose the Sonos speaker the source is connected to and touch **Line-In**.
   - On a Mac or PC, go to ••• > **Settings** (PC) or **Sonos** > **Preferences** > **Room Settings** (Mac). Choose the Sonos speaker the source is connected to from the **Room Settings for** drop-down and click the **Line-In** tab.
2. You can change the following settings:
   - **Line-In Source Name:** Choose a name from the list.
   - **Line-In Source Level:** A default (typical) line-in source level is automatically assigned for each source. If the volume sounds too low, you can choose a higher line level. (You may experience clipping at higher volume levels if you set the level too high.)
   - **Autoplay Room**: Choose the room you want this line-in source to play in whenever it's connected to Sonos.
   - **Include Grouped Rooms**: Turn on if you want the line-in source to play in rooms that are grouped with the autoplay room.
   - **Use Autoplay Volume**: Click the **Use Autoplay Volume** box if you want to use the external source to adjust the volume in the autoplay room. Use the slider to set a default volume.

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:

- On a mobile device, go to go to ••• > **Settings** > **Advanced Settings** > **Audio Compression**.
- On a PC, go to **Manage** > **Settings** > **Advanced**.
- On a Mac, go to **Sonos** > **Preferences** > **Advanced**.

Surround speakers

You can easily pair two speakers, such as two Play:5s, with a Sonos home theatre product to function as left and right surround channels in your Sonos surround sound experience.

If you have a Connect:Amp and speakers, you can configure the Connect:Amp for surround use. **Both the Connect:Amp and the Playbase/Playbar must be wired in this configuration**—this is a requirement only when configuring a Connect:Amp for surround. It is not a requirement for normal use of these products.

Set up Connect:Amp surround

Note: If this is a newly purchased Connect:Amp, be sure to add it to your Sonos system before attempting to set up surround speakers.

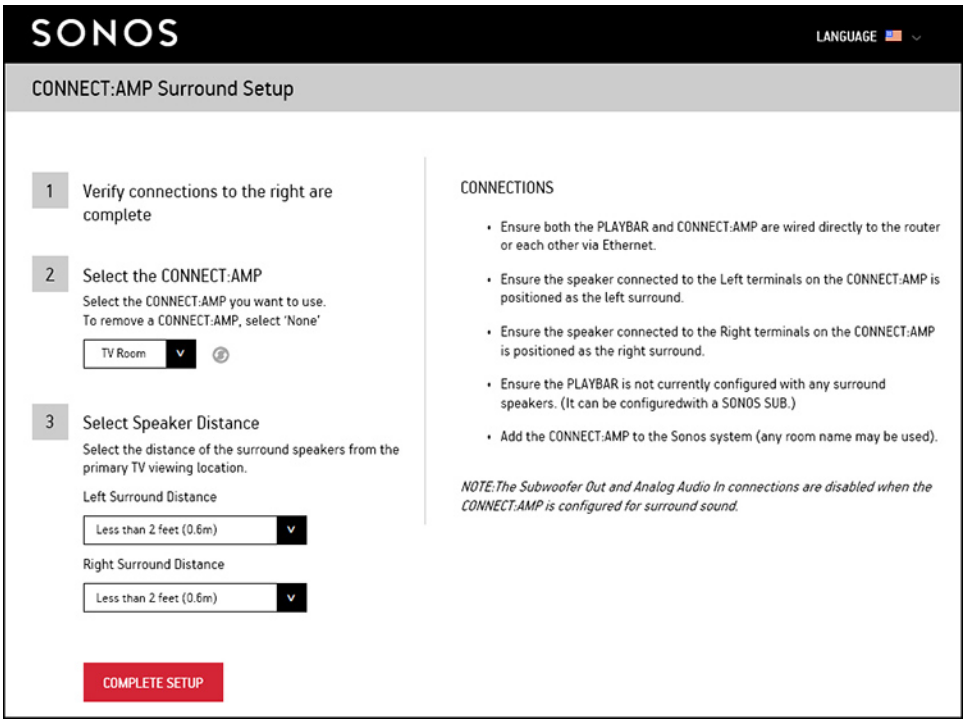
1. Connect the Playbase/Playbar to your router with an Ethernet cable.
2. Connect the Connect:Amp to your router, or to the Playbase/Playbar, with an Ethernet cable.
3. Attach desired speakers to the Connect:Amp (power rating should be at least 75W for 8 Ohm speakers and at least 150W for 4 Ohm speakers.)
4. Position the speaker connected to the **Left** terminal on the Connect:Amp as the left surround speaker in your surround sound setup.
5. Position the speaker connected to the **Right** terminal on the Connect:Amp as the right surround speaker in your surround sound setup.

Note: Make sure your Playbase/Playbar, is not currently configured with any other surround speakers. It can be configured with a Sub.

6. Locate the IP address for your Playbase/Playbar,.

- On a PC, go to **Help** > **About My Sonos System**.
- On a Mac, go to **Sonos** > **About My Sonos System**.
- On a mobile device, go to ••• > **Settings** > **About My Sonos System**.

7. Open a browser on your computer.
8. Type **http://*playbarIP*:1400/wiredsat.htm** (e.g. **http://10.20.11.49:1400/wiredsat.htm**) into the address bar and then follow the prompts to complete the Connect:Amp surround setup.



Remove Connect:Amp surround

1. Locate the IP address for your Playbase/Playbar,

- On a PC, go to **Help** > **About My Sonos System**.
- On a Mac, go to **Sonos** > **About My Sonos System**.
- On a mobile device, go to ••• > **Settings** > **About My Sonos System**.

2. Open a browser on your computer.
3. Type **http://*playbarIP*:1400/wiredsat.htm** (e.g. **http://10.20.12.49:1400/wiredsat.htm**) into the address bar.
4. From the **Connect:Amp** drop-down, choose **None** and then click **Complete Setup**.
5. If desired, you can now disconnect the Connect:Amp from your router and move it to a new location.

Your home network

Your Sonos speakers and the mobile device with the Sonos app need to be on the same Wi-Fi network.

Wireless network

Setting up Sonos on your home Wi-Fi is the answer for most homes. You just need:

- High-speed internet connection such as DSL/cable modem or fiber-to-the-home broadband connection
- High-speed DSL/cable modem (or fiber-to-the-home broadband connection)
- 2.4GHz 802.11b/g/n wireless home network

Note: Satellite internet access may cause playback issues.

Wired home network

Connect a Sonos Boost or speaker to your router with an Ethernet cable if:

- Your Wi-Fi is slow, temperamental, or doesn't reach all the rooms where you want to use Sonos.

- Your network is already in high demand with streaming video and internet usage and you want a separate wireless network just for your Sonos system.
- Your network is 5GHz only (not switchable to 2.4GHz).
- Your router supports only 802.11n (you can't change the settings to support 802.11b/g/n).

Note: For uninterrupted playback, use and Ethernet cable to connect the computer or NAS drive that has your music library files to your router.

Got a new router?

If you purchase a new router or change your internet service provider (ISP), you'll need to restart your Sonos products after the router is installed.

Note: If you keep a Sonos product connected to your router and an ISP technician connects it to the new router, then you'll only need to restart your other Sonos products.

1. After the router is set up, disconnect the power cords from your Sonos products for at least 5 seconds.
2. Reconnect all the power cords—if you keep a Sonos product connected to your router, start with that one.
   The speaker status light turns solid white on each product when the restart is complete.
   If you don't have a Sonos product connected to your router, you'll need to change your network password in the Sonos app.

Change your network password

If you change your network password (and you don't have a Sonos product connected to your router), you'll need to update the password in the Sonos app.

1. Connect a Sonos speaker to your router with an Ethernet cable.
2. Choose an option:
   - On a mobile device, go to ••• > **Settings** > **Advanced Settings** > **Wireless Setup**.
   - On a PC, go to **Manage** > **Settings** > **Advanced**. On the **General** tab, select **Wireless Setup**.
   - On a Mac, go to **Sonos** > **Preferences** > **Advanced**. On the **General** tab, select **Wireless Setup**.
3. Enter the new network password.

Once the password is accepted you can unplug the speaker from the router and move it back to its original location.

Important safety information

Please read these instructions and heed all warnings. Keep them in a convenient location and make sure everyone in the household is aware of them.

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.

Location

- The product should not be used near water—avoid close proximity to a bathtub, kitchen sink, laundry tub, wet basement, swimming pool, etc.
- Do not place the unit where it will be exposed to excessive heat (e.g., radiators, heat registers, stoves), direct sunlight, or a dusty environment (e.g., woodworking shop.)
- Do not place the unit where it will be exposed to flammable liquids and/or fumes.
- Do not place the unit in a small confined space (e.g., closet or cabinet, under a bed or sofa) where ventilation is restricted.
- Protect the power cable from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the product. The mains cord should be readily available to disconnect the power.

Proper Ventilation

- Leave 10” of open space around the sides and above the unit to ensure proper ventilation.
- Ventilation should not be impeded by covering the ventilation openings with items such as tablecloths, curtains, or papers.
- Do not let foreign objects into the unit. If a foreign object should get into the unit, unplug the unit and contact Sonos for servicing guidance.

Usage

- Do not operate or handle the product with wet hands.
- Do not place any object on top of the product (e.g. vase, coffee cup, potted plant, books, magazines, etc.)
- Only use attachment/accessories specified by Sonos.
- Unplug the power cord during lightning storms or when unused for long periods of time.
- Never disassemble or modify the product in any way.

Cleaning & Maintenance

- Keep the unit free from dust, pet hair and other fine particles.
- Wipe only with a soft, dry cloth.
- Do not use chemical solvents (e.g. alcohol, benzene, paint thinner) or other flammable cleaning liquids to clean the product.
- Refer all servicing to Sonos qualified service personnel. Servicing is required when the unit or the power cord has been damaged in any way, if liquid or other foreign matter has fallen into the ventilation openings, or the unit has been exposed to rain or moisture.

Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Specifications

Feature	Description
Audio	
Amplifier	Class-D
Rated Output	110W RMS (2x55W continuous average power into 8 ohms, THD+N<0.02%)*
Speaker Connections	Spring binding posts (in North America, the ZP120 has combined spring binding post/banana jack connectors)
Line-In Connections	Auto-detecting RCA type
Subwoofer Output	Auto-detecting RCA type, 80 Hz crossover
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***.
Internet Radio Supported	Streaming MP3, HLS/AAC, WMA
Album Art Supported	JPEG, PNG, BMP, GIF
Playlists Supported	Napster, iTunes, WinAmp, and Windows Media Player (.m3u, .pls, .wpl)
Networking	
Wireless Connectivity	Connects to your home Wi-Fi network with any 802.11 b/g/n router. 802.11n only network configurations are not supported—you can either change the router settings to 802.11 b/g/n or connect a Sonos product to your 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 Sonos to reduce Wi-Fi interference.

Feature	Description
Network Bridging	2-port switch allows a connection to your network or to other Sonos speakers.
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 – 120V~ / 220 – 240V~ 50 – 60 Hz, user-switchable
Front Panel Buttons	Volume and Play/Pause
Front Panel LED Indicators	Audio and player status indicators
Dimensions (H x W x D)	3.50 x 7.28 x 8.15 in. (89 x 185 x 207 mm)
Weight	5.1 lbs. (2.3 kg)
Operating Temperature	32º to 104º F (0º to 40º C)
Storage Temperature	4º to 158º F (-20º to 70º C)
Product Finish	Anodized precision machined extrusion aluminum case. Aluminum casing also facilitates passive cooling.

* Both channels driven, 22Hz-20KHZ-AES17 measurement bandwidth.

* Specifications subject to change without notice.

Product guide feedback?

We'd love to hear from you! We'll read your feedback carefully and use it to help us improve our product guides. Write to us at: **docfeedback@sonos.com**

If you're having a problem with your Sonos system, please contact Customer Care so they can help. Email them at **http://www.sonos.com/emailsupport**.

Need more help?

- Tap ••• > **Help & Tips** to get some simple tips for getting the most out of your speakers.
- Visit our Frequently Asked Questions (FAQ) pages at **www.sonos.com/support.**
- Ask us a question at **http://www.sonos.com/emailsupport**.