Amp

Overview

Power your passive speakers, create your dream smart home, and enjoy endless possibilities for multiroom listening.

- Amp features a built-in state-of-the-art digital amplifier that can power large or small speakers so you can enjoy superior audio in any room.
- Works with either Sonos S2 or Sonos S1 (for Android and iOS).

Play music through your favorite speakers

- Connect your favorite bookshelf, floor-standing, in-wall, or in-ceiling speakers to Amp to stream all the music you love.
- Connect a turntable, stereo, or portable audio device and play the sound on any Sonos speaker.

Enhance your TV sound

Connect Amp to your TV to create the ultimate entertainment system.

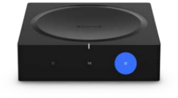
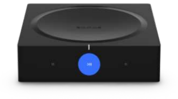
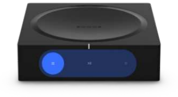
- Use Amp and a pair of 3rd-party speakers to create two front audio channels.
- Use Amp with third-party speakers to add surround sound if you already have a Sonos home theater speaker (Arc, Arc SL, Beam, or another Amp) connected to your TV.

(For even deeper sound, add a Sonos Sub or connect a third-party subwoofer.)

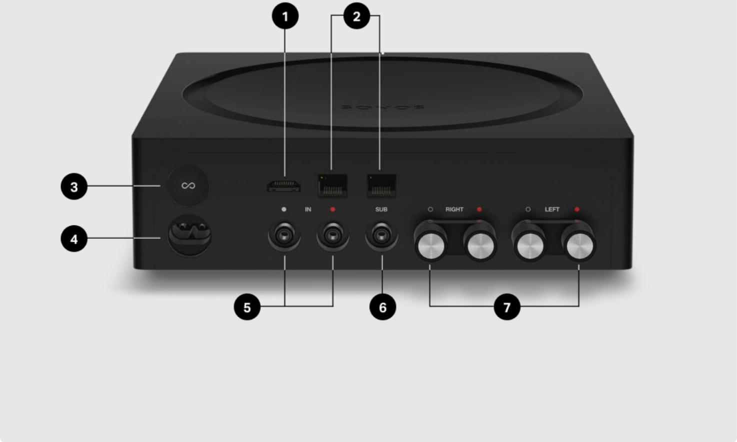
See **Setup** when you're ready to add Amp to your Sonos system.

Controls and lights

	Status light	Displays the product's connection to WiFi, indicates when the volume is muted, and signals errors. Learn more

	**Volume control**	• Volume up (right) • Volume down (left) Touch and hold to quickly change the volume.
	**Play/Pause**	Touch to play or pause sound. • **TV**—When the TV is on, touch to toggle the sound on and off. • **Music**—When the TV is off, touch to pause or restart music.
	**Next/Previous** **(Music only)**	• Swipe right across the touch controls to skip to the next song. • Swipe left to go to the previous song. **Note**: You can't skip forward or go back when listening to a radio station.

Connector panel



1	**HDMI ARC**	Use an HDMI cable to connect Amp to your TV's HDMI ARC port.
2	**Ethernet ports**	Use an Ethernet cable if you want to connect to a router, computer, or network-attached storage (NAS) device (optional).
3	**Join button**	Press to connect during setup.
4	**AC power (Mains) port**	Use only the supplied power cord (using a third-party power cord will void your warranty). **Note**: Insert the power cord firmly.
5	**Analog audio in**	Use a standard RCA audio cable (included) to connect Amp's analog audio inputs to the outputs on another device, like a pre-amplified turntable or portable music player.
6	**Subwoofer output**	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. **Note**: If you disconnect your subwoofer, make sure to also disconnect the subwoofer's cable from the Amp output.
7	**Speaker terminals**	Use high-quality speaker wire to connect your speakers to Amp.

Select a location

You can place Amp just about anywhere—in an electronics rack, on a shelf, or on a credenza with your TV.

Rack mounted

- Amp mounts perfectly in any electronics rack.
- Place two Amps side by side in a 2U rack.
- Place four Amps in a 3U rack.

Placed on a credenza

- Place horizontally on a stable and level surface at least 3 in / 50 mm from the TV.
- Don't block the TV's IR sensor.
- If put on a shelf, place at the front and keep 3" (minimum) clearance on all sides.
- Don't block the front of Amp so you can reach the touch controls.

Connect the cables

1. Make sure your speakers are compatible with Amp:
    - Your speakers' power rating should be at least 125W for 8 ohm speakers, and at least 200W for 4 ohm speakers. Do not connect speakers rated at less than 4 ohm.
    - Amp can drive speakers with nominal impedance above 4 ohms. Two pairs of 8 ohm speakers wired in parallel are also supported. Don't wire your speakers in series because it will result in poor sound quality.
2. Remove the cap from the banana plug to reveal the connection hole.
3. Insert the stripped end of the speaker wire into the hole, then put the cap back on the banana plug to secure the connection.

    Note: Connect the red (+) and black (-) terminals from each speaker to the corresponding banana plugs and terminals on Amp. Mismatching of polarities will result in weak central sound and a distorted sense of sound direction.
4. Insert the banana plug into the proper speaker terminal on the back of Amp.
5. Repeat to install the other speaker wires.
6. Connect the power cord and plug in Amp.
7. If you're connecting Amp to your TV, use an HDMI cable to connect from Amp's 's HDMI port to your TV.
    - If your TV has an HDMI ARC port, connect the HDMI cable to your TV's HDMI ARC port.
    - If your TV doesn't have an HDMI ARC port, you'll need the optical adapter. Attach it to the HDMI cable and connect the optical adapter end to your TV's optical digital OUT port.

    When connected, Amp creates two front audio channels and plays your TV sound through your favorite non-Sonos speakers.

Line in

Connect an audio device, like a projector, CD player, or turntable (with a built-in phono preamp), to any Sonos product that has a line-in port (Era 300, Era 100, Amp, Port, or Five). Then go to ♫ > **Line-In** to select the source and start playback.

Note: Era 300 and Era 100 require a Sonos Line-In or Combo Adapter (**sold separately**). Other products may require a different type of line-in adapter depending on your audio source.

Learn more

Stereo to mono

Amp plays audio in stereo by default. You can change the sound settings for the room associated with the Port so it plays in two mono channels when playing music.

1. Go to **Settings > System**, and select Amp.
2. Select **Advanced Audio** > **Stereo/Mono**, then choose an option.

Learn more

Specifications

Feature	**Description**
AUDIO	
Amplifier	Class-D digital amplifier
Amplifier power	125W/Ch into 8 ohms
Speaker connections	Banana plugs (2)
Line-in sources supported	Audio device with analog RCA output or optical output (optical adapter required). TV device with HDMI ARC or optical output (optical adapter required).
Subwoofer output	Auto-detecting RCA type, adjustable crossover
NETWORKING	
Wireless connectivity	**Using Sonos S2**: Connects to WiFi network with any 802.11b/g/n 2.4 GHz broadcast-capable router. **Using Sonos S1**: Connects to WiFi network with any 802.11b/g 2.4 GHz broadcast-capable router. 802.11n only network configurations are not supported—you can either change the router settings to 802.11b/g/n or connect a Sonos product to your router.
Ethernet ports	Dual Ethernet ports can connect Amp to a wired home network and allow for connection of additional Sonos products.
GENERAL	
System requirements	Passive speakers with speaker wire, broadband internet, and Sonos app.
Power supply	Auto-switching 100 - 240V ~ 50-60 Hz 2.5A AC universal input
Controls	Touch interface with volume up/down, previous/next song and play/pause.
Status indicator	Displays the product's connection to WiFi, indicates when the volume is muted, and signals errors.

Dimensions (H x W x D)	2.52 x 8.54 x 8.54 in / 64 x 217 x 217 mm
Weight	4.6 lbs. (2.1 kg)
Operating temperature	32° to 104° F (0 to 40° C)
Storage temperature	-4° to 122° F (-20° to 50° C)
Product finish	Black
Package contents	Sonos Amp, 2 banana plugs, AC power cord, and Quickstart Guide

* Specifications subject to change without notice.

Important safety 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 block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Protect the power cable from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. This product does not have any user-serviceable parts. Do not open or disassemble or attempt to repair it or replace any components. 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.
13. The Mains plug should be readily available to disconnect the equipment.
14. **Warning**: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
15. Do not expose apparatus to dripping or splashing and do not place objects filled with liquids, such as vases, on the apparatus.