

SONOS

S16

Product Guide

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Sonos S16

S16 includes 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, even your living room.

- Play anything—music, TV, movies, podcasts, radio, audiobooks, and video games.
- Connects to your TV with HDMI ARC and creates two front channels for your TV audio. Add a Sub for even richer sound. Add two Sonos speakers or another S16 with third-party speakers to add surround sound.
- Plug in any audio device, like a turntable or a phone, and listen out loud.

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 Sonos?

You can easily add new speakers anytime (up to 32). Just plug in the speaker and tap **...** > **Add Speakers**.

What's in the box

Carefully unpack the box. The contents include—S16, banana plugs (2), power cord, Quickstart Guide, and legal booklet.

Note: The box doesn't include an HDMI cable or optical audio adapter for connecting S16 to your TV.

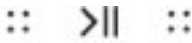
Explore S16

Swipe, touch, or tap—with S16 you've got choices on how to control the sound.

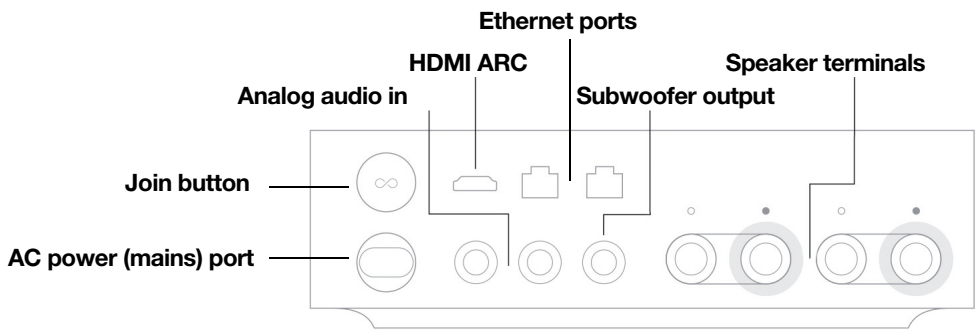
- Use your TV remote control.
- Use the app.
- Use the touch controls—touch or swipe across the controls.

Note: Refer to the *Sonos app for mobile devices* product guide for more information on using the app.

Touch controls

	Volume control	Touch for small adjustments or touch and hold to quickly change the volume: • Volume up (right) • Volume down (left) Note: You can also use the app or your remote control.
	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.
	Status light	Indicates the status. For more information, see http://faq.sonos.com/led.

Connector panel



Analog audio in	Use a standard RCA audio cable to connect S16’s analog audio inputs to the audio outputs from a separate audio component, such as a turntable or a portable music player.
HDMI ARC	Use an HDMI cable to connect S16 to your TV’s HDMI ARC port.
Ethernet port (2)	Use an Ethernet cable if you want to connect to a router, computer, or network-attached storage (NAS) device (optional).
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.
Speaker terminals	Use high-quality speaker wire to connect your speakers to S16.
Join button	Press to connect during setup.
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.

What can you do with S16?

Play music through your favorite speakers

S16 makes it so you can use your favorite non-Sonos speakers to play anything from Sonos. Connect a turntable, stereo, or portable music player to S16 and play the sound on any Sonos speaker.

Enhance your TV sound with your favorite speakers

Connect S16 to your TV to improve the sound. S16 uses your favorite non-Sonos speakers to create two front audio channels. Add a Sonos Sub or connect a third-party subwoofer to get even deeper sound from S16. Add surround sound by adding two Sonos speakers of the same model or another S16 with third-party speakers.

If your TV has an HDMI ARC port, use an HDMI cable to connect it to S16.

If your TV doesn't have an HDMI ARC port, you can connect it to S16 using the optical digital audio port on your TV along with the **optical audio adapter**. This adapter connects S16 to your TV's optical audio output.

Create surround sound for your Sonos home theater with your favorite speakers

Use S16 with third-party speakers to add surround sound if you already have a Sonos home theater speaker (Beam, Playbase, Playbar, or another S16) connected to your TV.

Choose a location

You can place S16 in an electronics rack, on a credenza with your TV, or just about anywhere else.

Rack mounted

- S16 mounts perfectly in any electronics rack.
- Place two S16s side by side in a 2U rack.
- Place four S16s in a 3U rack.

Placed on a credenza

- Place horizontally on a stable and level surface at least 3" (50mm) from 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 S16 so you can reach the touch controls.

Connect the cables

Attach desired speakers

Your speaker's power rating should be at least 100W for 8 ohm speakers, and at least 200W for 4 ohm speakers. Do not connect speakers rated at less than 4 ohm.

1. Remove the cap from the banana plug to reveal the connection hole.
2. Insert the stripped end of the speaker wire into the hole, then return the cap to the banana plug to secure the connection.

Note: Connect the **red** (+) and **black** (-) terminals from each speaker to the corresponding banana plug and terminal on S16. Mismatching of polarities will result in weak central sound, and a distorted sense of sound direction.

3. Insert the banana plug into the proper speaker terminal on the back of S16.

4. Repeat to install the other speaker wires.

Connect the power cord

Attach the power cord and plug in S16.

If you don't have the app, download it from the app store. You'll use it to set up and control your Sonos system. See [New to Sonos?](#)

Connect S16 to your TV

Use an HDMI cable to connect S16 to your TV. When connected, S16 creates two front audio channels and plays you TV sound through your favorite non-Sonos speakers.

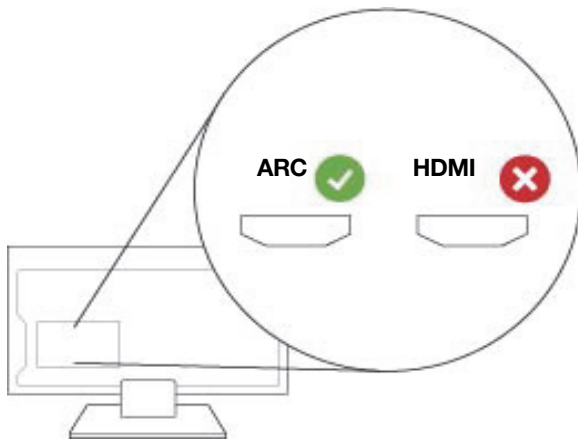
Note: You may need the [optical adapter](#) too (the app lets you know).

1. Fully insert the HDMI cable into S16's HDMI port.
2. Connect the HDMI cable to your TV. You have two choices:
 - **If your TV has an HDMI ARC port**, connect the HDMI cable directly to the TV's HDMI ARC port.
 - **If your TV doesn't have an HDMI ARC port**, attach the optical adapter to the HDMI cable and connect it to the TV's optical digital OUT port.

If your TV has an HDMI ARC port

HDMI ARC is a special port that looks like a standard HDMI port. Although they look the same, if you connect to a standard HDMI port, *you won't hear sound*.

1. On your TV's **audio OUT** panel, look for an **HDMI ARC** port.
It may be on the back or side of your TV.
You'll know it's an ARC port if you see the word "ARC" on the label.



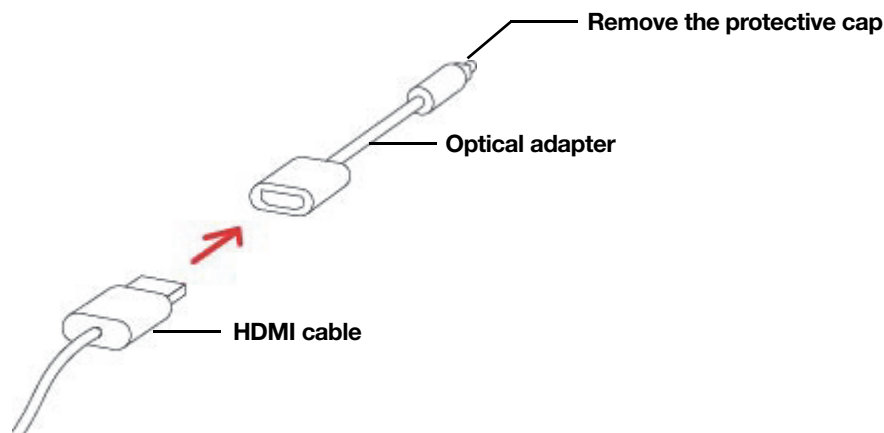
2. Connect the HDMI cable to the TV's **HDMI ARC** port.

Note: If you can't find the word "ARC" on the label, it isn't the correct port, see [If your TV doesn't have an HDMI ARC port](#).

If your TV doesn't have an HDMI ARC port

You'll need the optical audio adapter.

1. Remove the protective cap from the optical adapter.
2. Attach the optical adapter to the HDMI cable.



3. Connect the optical adapter to the TV's **optical digital OUT** port.

Note: The optical adapter's port is "D-shaped"—make sure the connector aligns correctly into the port. Inserting the adapter incorrectly may damage the cable.

If you don't have the app, download it from the app store. You'll use it to set up and control your Sonos system. See New to Sonos?.

Play music

S16 can stream music whether the TV is on or off. If **TV Autoplay** is set to *On*, the music stops and switches to TV audio whenever you turn on the TV.

- **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.

Play music from other audio devices

You can connect an audio device like a turntable, stereo, or MP3 player to S16 and stream the audio to Sonos. Just connect your device, then go to **Browse > Line-In** and select the source.

To a portable music player: Use a 1/8" 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 back of your S16.

To an external source like a turntable: Plug a standard RCA cable into the analog **Audio In** connections on the back of your S16.

You can use the RCA connection on S16 to play music to any Sonos players in your household, even when S16 is playing something different, like your TV sound.

Note: When connecting a turntable to S16, we recommend using an off-board phono preS16 that offers load adjustments, gain, and Recording Industry Association of America (RIAA) equalization.

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 list of music sources. Click ▼ next to the music source and choose **Play Now**.

Change the settings

Note: Use the Sonos app on your mobile device to change line-in settings.

1. Tap **⋮** > **Settings** > **Room Settings**. Choose the Sonos speaker the source is connected to and touch **Advanced Audio** > **Line-In**.
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 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

Note: You must use the Sonos app on your mobile device to change 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 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 theater.
- 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, go to go to **⋮** > **Settings** > **Advanced Settings** > **Audio Compression**.

Add surrounds

Turn two Sonos speakers (same model) or an S16 paired with your favorite non-Sonos speakers into separate left and right rear channels for your Sonos home theater speaker (Beam, Playbase, Playbar, or S16).

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

Note: Use the Sonos app on your mobile device to add or remove surround speakers.

1. Tap **⋮** > **Settings** > **Room Settings**.
2. Choose the room with the home theater speaker and tap **Add Surrounds**.

Change surround settings

You can adjust the surround sound settings:

Surrounds	Turn surround sound On or Off .
TV Level	Adjust surround volume for TV audio.
Music Level	Adjust surround volume for music.
Music Playback	Ambient (subtle) or Full (louder, full range). Doesn't apply to TV audio.
Balance Surround Speakers (iOS)	Manually balance your surround speakers.

On a mobile device:

1. Tap **⋮** > **Settings** > **Room Settings**.
2. Choose the room with the surround speakers (name includes (+LS+RS)).
3. Select **Advanced Audio** > **Surround Settings** and change the settings.

On a computer:

1. Select **Manage** > **Settings** (PC) or **Sonos** > **Preferences** (Mac).
2. Select **Room Settings**.
3. Choose the room with the surrounds from the *Room Settings* drop-down list.
4. Select the **Surrounds** tab and change the settings.

Remove surrounds

If the speakers were part of your Sonos system before you added them as surrounds, they'll revert back to their previous room names. Otherwise, they'll appear as **Unused** in **Rooms**.

Note: Use the Sonos app on your mobile device to add or remove surround speakers.

1. Tap **⋮** > **Settings** > **Room Settings**.
2. Choose the room with the surround speakers (name includes (+LS+RS)) and tap **Remove Surrounds**.

Sub

Add a Sub

You can pair a Sonos Sub with any Sonos speaker or S16lified component.

Note: Use the Sonos app on your mobile device to add or remove a Sonos Sub.

1. Tap **...** > **Settings** > **Room Settings**.
2. Choose the room with the speaker you want to pair, and tap **Add Sub**.

Note: To pair a third-party subwoofer with S16, just connect it to the **SUB** port and S16 will automatically detect it.

Change Sub settings

When you add a Sonos sub or third-party subwoofer, Sonos optimizes the sound. You can adjust these settings:

Sub	Turn the Sub's sound On or Off .
Sub Level	Adjust the Sub's volume. (You can use this setting to match the subwoofer level to the level of your main speakers.)
Crossover Frequency	Adjust the frequency at which the sound transitions to the subwoofer. By default this is 80Hz.
Phase Control	Choose 0° or 180° to set the phase control for your Sonos Sub or third-party subwoofer. This can help integrate your subwoofer with other speakers in the room.

1. Tap **...** > **Settings** > **Room Settings**.
2. Select the room with the Sub. It appears as *Room (+Sub)*.
3. Select **Advanced Audio** > **Sub Settings** and change a setting.

On a computer:

1. Select **Manage** > **Settings** (PC) or **Sonos** > **Preferences** (Mac).
2. Select **Room Settings**.
3. Choose the room with the Sub from the *Room Settings* drop down list. It appears as *Room (+Sub)*.
4. Select the **Sub** tab and change a setting.

Remove a Sub

Note: Use the Sonos app on your mobile device to add or remove a Sonos Sub.

1. Tap **...** > **Settings** > **Room Settings**.
2. Select the room with the Sub. It appears as *Room (+Sub)*.
3. Select **Remove Sub**.

4. Choose one of the following:

- To pair the Sub with a different speaker, select **Choose Room for Sub**.
- If you're not using it, select **Don't use Sub**. It appears in Rooms as *Sub (unused)* until you pair it with a speaker.

Note: When you remove a third-party subwoofer, be sure to disconnect the cable from S16's **SUB** port.

S16 settings

Play in stereo or mono

S16 plays audio in stereo by default. You can change this so that S16 plays in two mono channels when you use it as a standalone music player.

1. Tap **...** > **Settings** > **Room Settings** and select the room.
2. Tap **Advanced Audio** > **Stereo/Mono**, then choose an option.

Adjust TV sound settings

Use the app to change sound settings or modify the way S16 works with your TV. Refer to the *Sonos app for mobile devices* product guide for more information on using the app.

Note: You can also use the Sonos app for Mac or PC.

TV Dialog Settings

If TV audio is out of sync with video, use the app to adjust the audio delay (lip sync).

1. Tap **...** > **Settings** > **Room Settings** and select the room.
2. Tap **Advanced Audio** > **TV Dialog Settings**.
3. Drag your finger across the **Audio Delay (Lip Sync)** slider to increase or decrease the sound delay.

TV Setup

If you have an existing standalone S16 in your Sonos system that you want to use for TV sound.

1. Tap **...** > **Settings** > **Room Settings** and select the room.
2. Tap **TV** > **TV Setup**. Then follow the on-screen prompts.

TV Autoplay

TV Autoplay—if music is playing when you turn on your TV, the music stops and S16 switches to TV audio (default). If you don't want the music to stop automatically, you can turn off **TV Autoplay**.

Ungroup on Autoplay—if S16 is grouped with other speakers when you turn on the TV, it drops from the group (default). If you don't want this to happen automatically, you can turn off **Ungroup on Autoplay**.

1. Tap **...** > **Settings** > **Room Settings** and select the room.

2. Tap **TV**.

Program your remote control

During setup, you'll program your remote control.

You can program a different remote control any time.

1. Open the app and tap **...** > **Settings** > **Room Settings**.
2. Choose the room.
3. Tap **TV** > **Remote control setup**.

Note: Some TVs show unnecessary messages when you adjust the volume. You may be able to turn these off. See [Turn off volume control messages](#).

Using your TV remote

Once programmed, S16 works with you TV remote by default. You may want to disable this feature if you originally configured S16 to work with your TV and then moved it to a different location.

1. Tap **...** > **Settings** > **Room Settings** and select the room.
2. Tap **Remote** > **Use IR**.

Enhance TV sound

When you're watching TV, the Now Playing screen in the app includes sound enhancement features. These features are only visible when you're looking at the room where S16 is located.

Speech Enhancement

Makes TV dialog easier to hear.

Tap  on the Now Playing screen to turn on or off.

Night Sound

Enhances quiet sounds and reduces the intensity of loud sounds. Turn on to reduce the volume while still experiencing proper balance and range.

Tap  on the Now Playing screen to turn on or off.

Additional room settings

Tap **...** > **Settings** > **Room Settings** to see more room settings you can change, such as:

- Recalibrate audio (Android)
- Turn off the speaker status light
- Disable speaker touch controls
- Enable Wi-Fi
- Change room names
- Adjust EQ

Troubleshooting

Warning: Do not open the product as there is a risk of electric shock. Under no circumstances should the product 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.

Customer Support

- Visit our website at www.sonos.com/support
- Email us at support@sonos.com

Speaker not detected during setup

- Make sure your system is updated to the current software.
- Insert the power cord fully into the speaker and your power source.
- Move speaker closer to your router.

Can't turn off TV's speakers

If you're using the optical adapter, during setup you'll turn off your TV's speakers. Refer to your TV owner's guide for more information.

If you can't turn them off,

1. Use the TV's volume buttons to turn the volume completely down. Do not use the **Mute** button.
2. Use only the volume buttons on your Sonos app to adjust the volume.

Turn off volume control messages

Some TVs may show volume control messages when you adjust the volume, even after you turn off your TV speakers. (If you have Beam or S16, this happens if it's connected to your TV using the optical adapter.)

You may be able to program your remote control to turn off these messages.

1. Program a device key.
 - Refer to your remote control's instructions or the cable box's on-screen help.
 - Contact your cable service provider for more help.
2. In the code list, search for the Sonos code.
 - If Sonos doesn't appear, select a code *other than that of your TV and its connected devices*.
 - *DO NOT initiate an automated search for a code.*
3. Lock the volume control to your Sonos speaker.

Note: This feature is sometimes referred to as volume lock or volume punch.

4. Program your remote control to work with your Sonos speaker.

Universal remote controls

If you can't program your universal remote control, or want to turn off volume control messages when you adjust the volume, you may want to try switching to Logitech® Harmony® universal remote.

Logitech universal remote controls

You'll need to add your Sonos speaker as a device.

1. Use the USB cable provided by Logitech to connect your Harmony remote to your computer.
2. Set up a Logitech user account and install the Harmony Remote software.
3. Launch the Logitech Harmony Remote software or go to www.logitech.com/myharmony and login to your account.
4. Select **Add Device**.
5. Choose an option:
 - Logitech Harmony Remote software
 - My Harmony website
6. Select or enter Sonos as the manufacturer and your speaker as the model name/number.

Note: You may need to add your speaker if it doesn't exist in the database.

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.

Location

- 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.
- Allow at least 3" between the unit and any walls or surfaces.
- 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.
- The product should not be used near water—avoid close proximity to a bathtub, kitchen sink, laundry tub, wet basement, swimming pool, etc.
- This product is for indoor use only. Do not expose to rain or snow.

Proper Ventilation

- Leave 3" 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.

Warning

- Do not operate or handle the product with wet hands.
- 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

- Dust with a dry, soft cloth. A cloth moistened with water or gentle household cleaner may be used to clean dirt or stains, but unplug the product first. Do not spray liquids directly onto the product.
- Do not use chemical solvents (e.g. alcohol, benzene, paint thinner) or other flammable cleaning liquids.
- 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 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
Music Access	
Audio Formats Supported	TV support for Dolby Digital and PCM. Music support for compressed MP3, iTunes Plus, WMA (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 sS16le rates. Additional support for 48kHz, 32kHz, 24kHz, 22kHz, 16kHz, 11kHz, and 8kHz sS16le rates. Note: Apple “Fairplay”, WMA DRM and WMA Lossless formats not currently supported. Previously purchased Apple “Fairplay” DRM-protected songs may be upgraded.

Feature	Description
Music Services Supported	Sonos works seamlessly with most music services, including Pandora, Spotify, Deezer, and SoundCloud. 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, WinS16, 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 2.0.
Ethernet Ports	Dual Ethernet ports can connect S16 to a wired home network and allow for connection of additional Sonos players.
General	
System Requirements	Passive speakers with speaker wire, broadband internet, and Sonos app.
Power Supply	AC 100-240V, 50-60 Hz
Controls	Touch interface with volume up/down, previous/next track and play/pause.
Status indicator	Light indicates S16 status.
Dimensions (H x W x D)	2.52" H x 8.54" W x 8.54" D, (64mm x 217mm x 217mm)
Weight	4.6 lbs. (2.1 kg)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 122°F (-20°C to 50°C)
Product Finish	Black
Package Contents	Sonos S16, Sonos banana plugs (2), AC power cord, warranty and regulatory booklet, and Quickstart Guide.

* 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**](mailto: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**](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**](http://www.sonos.com/support).
- Ask us a question at [**http://www.sonos.com/emailsupport**](http://www.sonos.com/emailsupport).