

JUKE

A U D I O

Multi-Room Streaming Amplifier



User Guide

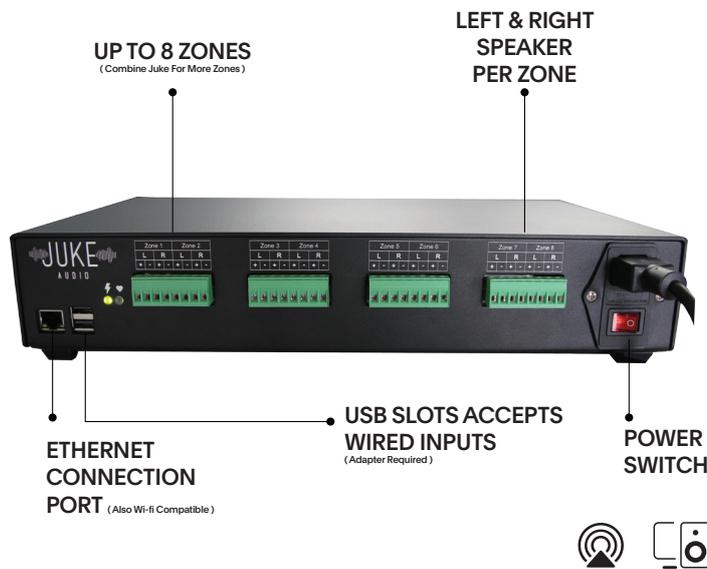
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Table of Contents

Product Overview	03
Specs	03
Installation	04
Rack or Table-Top	04
Wiring	04
Getting on the Network	06
Hard-Wired Ethernet Connection	06
Wireless connection	06
Networking Tips	07
Accessing the Juke Web App	08
Saving A Shortcut	08
Configuring	09
Editing Zone Names	09
Adjusting Inputs	09
Editing Zone Volumes	09
Playing Audio	10
Apple Airplay	10
Spotify Connect	11
USB	11
Getting Audio From TV to Juke	12
Apple TV	12
Hard Wired Connection	12
Add-Ons	13
Additional Volume	13
Adding on Zones	14
Adding a Subwoofer to Juke	14
Amazon Alexa Voice Commands with Juke	15
Streaming to Juke from Android via AirMusic	17
Troubleshooting	19
Networking Requirements	19
Speaker Wire Connections	20
Filing a Support Request	20
Safety Instructions	21

Product Overview

The Juke Audio multi-room streaming amplifier is an all-in-one solution for powering and wirelessly controlling pre-wired architectural speakers across an entire home or building. Through this guide, we'll explain the simple steps of connecting speaker wires to the Juke, getting the unit onto the local network, and streaming content from Wi-Fi enabled devices and wired analog inputs.



Specs

Zones	The Juke-8 covers 8 zones (16 channels) and the Juke-6 covers 6 zones (12 channels).
Output	40 watts per channel at 8 Ohm speaker impedance (stable down to 2 ohms)
Dimensions	15" wide x 8" deep x 3" tall – 2U in a rack
Number of Inputs	4 different devices can connect simultaneously
Wireless Inputs	Airplay, Airplay2, Spotify Connect, Audiodcast (via adapter)
Wired Inputs	2 USB ports for accepting wired RCA inputs via digital USB adapter

Installation

The Juke can be installed in one of two locations:

Rack or Table-Top



1. Placed onto a shelf or a flat surface. For best performance, do not rest any other equipment on top of it or place the unit in a location that might cause the unit to run hot
2. Mounted into a 19" equipment rack using the optional rack ears that come with the shipment. There are two aluminum plates that attach to the Juke with the 4 screws provided and are used to screw the unit into the rack.

Wiring



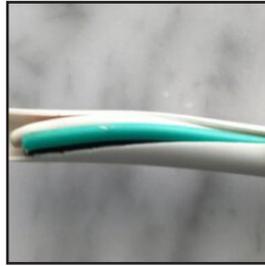
Next connect the speaker wiring. This may require a wire stripper, a small screwdriver, and scissors:



Tools required (not included): wire strippers, scissors and small blade screwdriver



Cut a small amount of the insulation covering the speaker wires



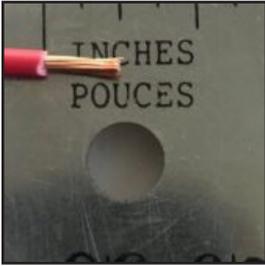
Peel back the insulation to expose 2 or 3 inches of wire



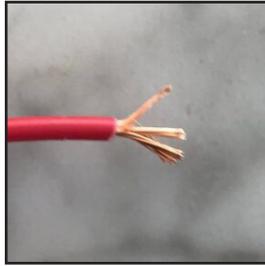
Peel it like a banana



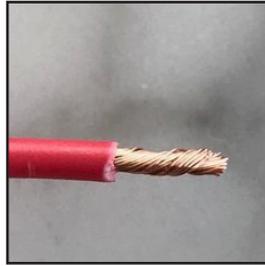
Cut off the excess insulation



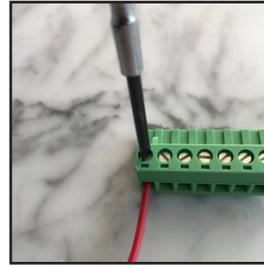
Strip about 1/4 inch of insulation from each wire



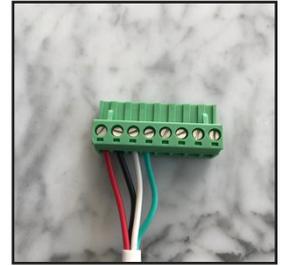
Fan out the wire strands



Twist the wire strands and make sure none are sticking out



Insert each wire in the terminal block and tighten the screw



Repeat the steps for the remaining wires



Repeat the steps for the remaining wires

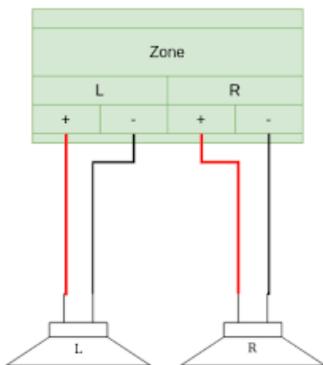


Plug each connector firmly into the Juke until it locks in place

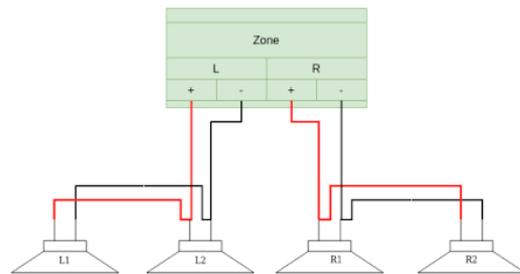


Repeat these steps for all of the zones

Each of Juke's zone outputs has a positive and negative connector for a left speaker, and the same for a right speaker (4 connectors in total: left positive, left negative, right positive and right negative). In typical applications, a single speaker is connected to each terminal pair such that each zone has a left and right speaker. However, up to two of Juke's eight zones can power four speakers: two left, and two right, as long as each speaker connected in that zone is 8 Ohms.



Standard Wiring – 2 speakers (L+R) run in parallel per zone

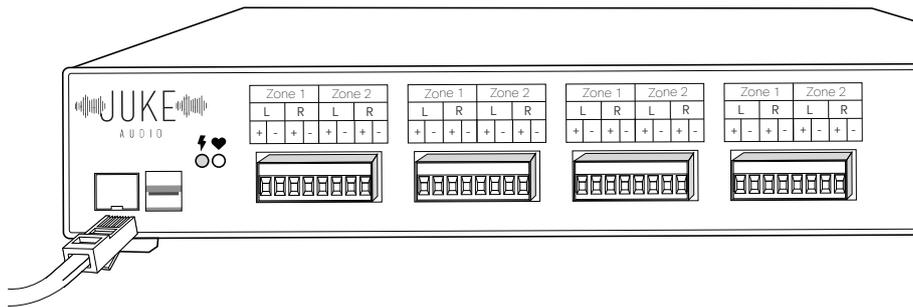


Doubling Up a Zone – 4 speakers into one zone (must be 8ohm speakers and can only be done on 2 zones per Juke)

Getting on the Network

Juke can be connected to your network either through a hard-wired ethernet connection or wirelessly over Wi-Fi as well. Whenever possible, we recommend a hard-wired connection for most stable performance.

Hard-Wired Ethernet Connection



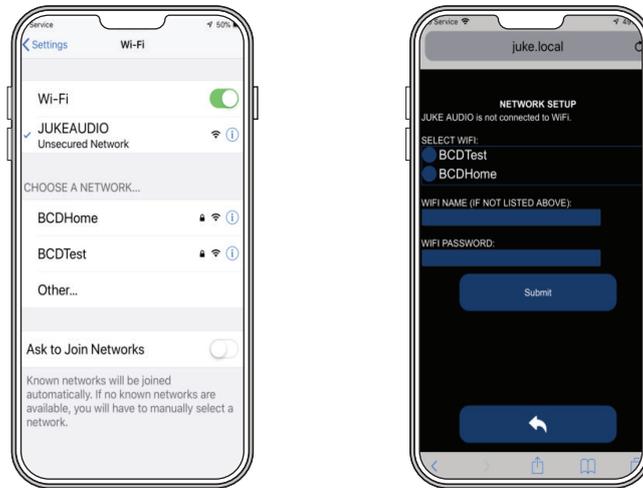
If available, it is preferable to connect Juke to your network via Ethernet. Note: make sure to connect Juke to the LAN port on your main router. Juke must be on the same network as the devices (e.g. your phone or tablet) you wish to control it with. If you plug Juke into a port on your cable modem, but your home network is provided by a different router, you won't be able to access Juke. **If connected via Ethernet, please skip the next section since there is no need to configure a wireless connection.**

Wireless connection

If Juke is within approximately 10 to 15 feet of an access point, you can use its internal Wi-Fi. Otherwise, if the distance is greater, we recommend either connecting Juke to a [TP-Link N300](#) with an ethernet cord, or connecting this [Wi-Fi USB adapter](#) directly into one of Juke's USB ports.

Steps:

1. Go to your settings then Wi-Fi to see your available networks. Disconnect from your local network and connect to the "JukeAudio" Wi-Fi.
2. **If on Apple:** Go to safari and type in Juke.local as a URL
3. **If On Android / PC:** Go to your internet browser and type in 10.0.0.5
4. Go to Admin settings and type in the password "Admin"
5. Go to Network Set- Up and type in the credentials for your Wi-Fi and hit submit
6. Then, reconnect your device to your Wi-Fi network. (This will likely happen automatically because Juke stops acting as an access point once it's on your network.)
7. Wait a minute, hit refresh in your browser, and you're done!



Networking Tips

All communication between your devices and Juke will be done over the network, and it is therefore very important to ensure a stable connection between the Juke, the router, and any device looking to stream to Juke. Most networks should work normally as is but if you are experiencing problems, here are a few criteria that need to be enabled within your network settings to ensure proper communication:

1. Select IPV4, not IPV6
2. Disable 5 GHz
3. Make sure security is WPA2, not WPA3
4. Make sure things like IGMP snooping disable

Accessing the Juke Web App

Once you have merged the Juke onto your network you'll be able to access the web app from any device connected to that same network.

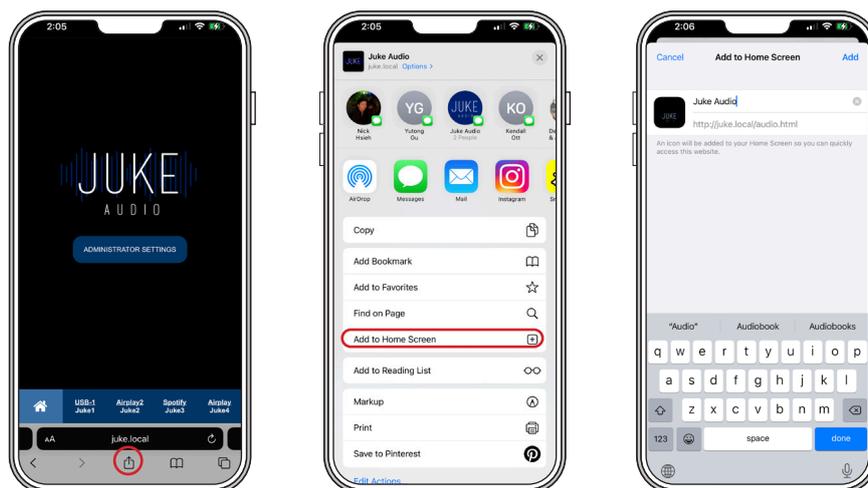
On Apple product: type in Juke.local into the web browser of Safari

On Android / PC: type in the IP address assigned to Juke by your router into your web browser. (Note: the IP address will no longer be 10.0.0.5 after you've connected your Juke to your network.) The assigned IP can be located by going to jukeaudio.com/lookup/ and typing in the serial number which can be found on the underside of the unit. If it fails to find your device, then please revert back to the first two networking steps.

Please note: The IP address of your Juke may change if there is a power outage. See troubleshooting tab for instructions on reserving an IP address for Juke so it does not change.

Saving A Shortcut

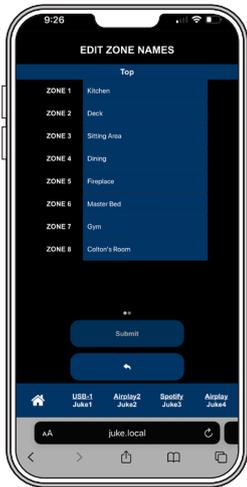
We recommend saving a shortcut to this webpage on the home screen of your device for easier access. In order to do so with Apple, you can hit the square with the arrow coming out of it in Safari, on Android tap the three dots in the upper right hand corner to save the shortcut Wait a minute, hit refresh in your browser, and you're done!



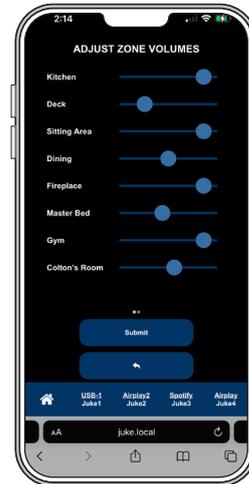
Configuring

All the Juke device configuration can be done in the Administrator settings of the Juke web app. The password to this is preset to “Admin” with a Capital A but can be changed inside of the Admin settings. See troubleshooting section of this guide for how to reset the password.

Editing Zone Names



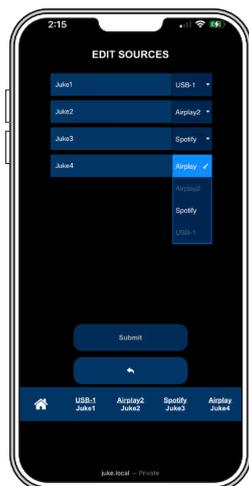
Editing Zone Volumes



When Juke is first installed, the zones are numbered. You will want to give them names that you recognize (e.g. kitchen, deck, master bedroom, etc.).

In the blue boxes on the right, enter the names for the zones, and click Submit.

Adjusting Inputs



While using Juke, you typically control the volume with your device the way you normally do (e.g. by using the volume buttons on your phone) or adjusting the volume slider directly from the input itself within Apple Music, Pandora, etc. However, you may want to adjust the relative volumes of the zones to make certain areas quieter or louder than the rest. To do so, go to the edit zone volumes tab, drag the sliders to the desired levels, and click Submit.

Juke supports 4 simultaneous audio inputs. All of which are set to Airplay by default, but can be adjusted to Airplay2, Spotify Connect (especially important for Android), or a connected analog input to Juke’s USB port via the DigitNow adapter (see full info in USB portion of the using tab).

Playing Audio

From the home screen of the Juke web app, you will see your 4 available inputs listed at the bottom of the page. Tapping on any of them will turn that input light blue to signify that is the input you are now controlling.

You can then turn any combination of zones on for that selected input, e.g., every zone, just a couple, or none. A zone will be light blue to signify that it's been turned on. Please note that you can not have a zone turned on for multiple inputs at one time.

Once you have the zones turned on for your desired input, it is time to leave the Juke web app and begin playing the music directly from the app or device of your choice. The options are as follows:

Apple Airplay

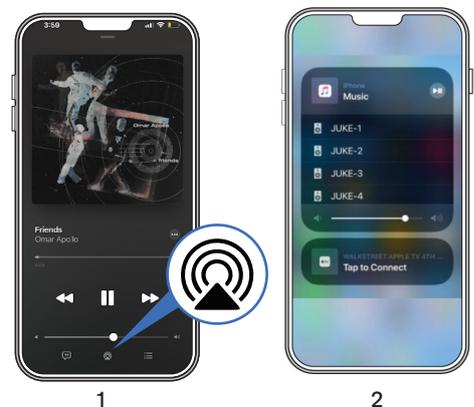


Stream any content or app of your choosing that you can access on an Apple product, e.g, iPhone, iPad, AppleTV, etc. directly to Juke. This provides unlimited options from the apps you can choose – AppleMusic, Pandora, Amazon Music, Spotify, etc.

How to access: There are different ways to connect to Juke's Airplays. For example, on older iOS devices, swipe up from the bottom edge of any screen. On iPhone X or later, or iPad with iOS 12 or later, swipe down from the upper-right corner of the screen.

You can follow the pictures or watch the video tutorial

1. Click on the Airplay icon in the top right corner.
2. Click on one of the Jukes airplay inputs that you have



zones turned on for and then begin playing your music.

Note: One of Juke's 4 inputs can be adjusted to Airplay2. The advantages of this over original Airplay is the ability to stream to Juke and other Airplay2 enabled devices together, and also not have the music stop when a phone call comes in.

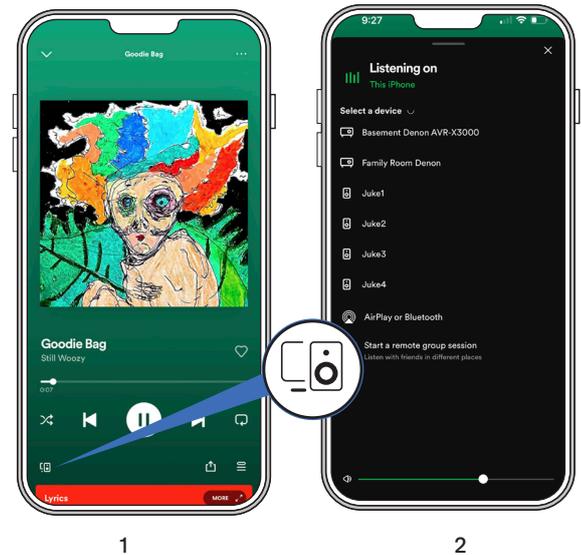
Spotify Connect

Stream directly from your premium Spotify account to Juke. This serves as a terrific option for users looking to stream from their Android and computers, and has an added benefit of the music not stopping when a phone call comes in.

How to Access:

1. Launch the Spotify app on your device. Click on the "Devices Available" icon (shown on the lower-left above).
2. Select one of the Jukes from the list of available devices.

Note: Apple users can stream Spotify to Juke using Spotify Connect (as described above), or via Airplay. One advantage of using Spotify Connect is that your music will not be interrupted when you receive phone calls. With Spotify Connect, when using the volume buttons on your device, make sure that you are in the Spotify app, otherwise you might be controlling something other than Juke (e.g. your phone volume).



USB

If you have an analog device connected to Juke via the [USB to RCA Digitnow adapter](#), then you'll be able to edit one of the four inputs to be a USB input.

Once that has been configured, you'll go to that input in the bottom of the screen and turn the zones on for the connected USB and begin playing audio directly from that device. The volume output can be controlled with the slider at the top of the screen. However, keep in mind that the output level set on the connected device will also impact the volume as well.

Example of USB inputs:

AudioCast for Android: This is a separate dongle piece that gives Android users great flexibility to stream from inputs such as Pandora, iHeartRadio, and TuneIn. See information on how to purchase and use the product [here](#)

Surround Sound Receiver: If you have a main media room / theater that you'd like to power with a separate surround sound receiver, you can do so, and then connect the receiver to the Juke USB as an input when you want to play audio from that receiver to other areas of the house.



Getting Audio From TV to Juke

Apple TV



To do so you must connect your AppleTV to Airplay. This can be done by holding down the TV icon on your AppleTV remote and selecting the Airplay input that you have your selected zones turned on for. (Note: YouTube TV does not yet support this feature)

Hard Wired Connection

Another option is to run a hardwired connection directly from your TV or cable box back to the Juke. This can be done via the utilization of the USB adapter into a Juke and then an [RCA to Optical converter into your TV](#) with a male to male RCA cable in-between the two adapters.



Add-Ons

Additional Volume

If you're seeking more volume from your Juke there are few different options. The most seamless option is to utilize 4 ohm speakers when possible as that will give twice the loudness of an 8 ohm speaker. Some outdoor speakers even have a switch that takes them from 8 ohm to 4 ohm speakers.

An alternative is to utilize a third party amplifier to drive additional power, essentially making Juke a pre-amp in a specific zone. This can be done in two different ways:

1. Installation if Speakers are Connected in Parallel

If Juke is powering speakers in a zone, and you also want the line-level device to play concurrently, the following part is required:

Part Description	Amazon ASIN Number	Amazon Link	Approximate Price
PAC SNI-35 Variable LOC Line Out Converter	B001EAWS3W	Speaker-level to line level converter	\$9.77

Connect the 4 wires of the PAC in parallel with the speaker wires connected to Juke's green connector (the correct order from left to right is: white, white with a black stripe, grey, grey with a black stripe) for that zone and connect the RCA jacks to the line-inputs on the third-party device. You can adjust the volume of the PAC with the rotary dials on the end, but mostly likely the default setting will work well and there is no need to make an adjustment. That's it!

2. Installation if Speakers are Not Connected in Parallel

If you wish to stream via Juke to a third-party device but you want the option of playing that device without also playing to speakers connected directly to Juke for that zone, another step is required. In addition to the Pac part listed above, you need to add a resistor across the positive and negative terminals of Juke's left and right outputs for that zone. (This makes Juke think that speakers are connected to that zone, otherwise it won't play.) This requires the following part:

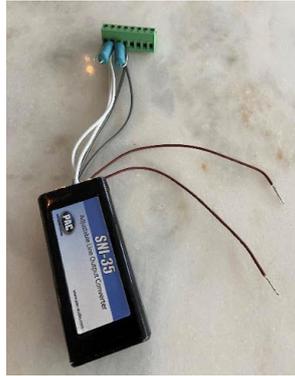
Part Description	Amazon ASIN Number	Amazon Link	Approximate Price
MULTICOMP MC14709 RESISTOR, WIREWOUND, 50 OHM, 5W, 1%	B005T86UNY	Resistors	\$9.88

To do this, insert the wires for a resistor to the positive (+) and negative (-) terminals for Juke's left output terminal (i.e. in parallel with the wires going to the PAC part). Do the same for the right output terminals using a second resistor. Tighten the 4 screws to secure the wires and resistors.

Here is what the resistors looks like:



And here is what they look like applied to the terminal block in parallel with the PAC device (the brown wires are for grounding, which can be ignored, so just apply electricians tape to the ends):



Pac part

Adding on Zones

The Juke-6 can be upgraded via a premium software upgrade available on our website to enable the 7th and 8th zone of the unit. In situations where more than 8 zones are required, you can combine our units together to reach more zones. As long as the Jukes are connected to the same network, they will recognize each other and pair wirelessly, allowing you to stream across the zones together. (12 zones, 16 zones, etc.)

Adding a Subwoofer to Juke

Juke provides zone outputs that power speakers in each zone. To add a powered subwoofer to a zone, connect an adapter in parallel with either the left or right speaker in the room where a subwoofer will be used. The adapter converts the speaker voltage to line-level so that it can be connected to the input of a powered subwoofer.

Instructions:

1. Buy two inexpensive items on Amazon or elsewhere (the Rockford Fosgate part converts the speaker-level signal to line-level, and the Boss part ensures that there is no ground-loop noise):
 - a. Rockford Fosgate RFI2SW High Level RCA Input Plug. The Amazon ASIN number is B009B8EJYU, and the price is about \$9.77. Here is the Amazon link: [Speaker-level to line-level converter](#)
 - b. BOSS Audio Systems Ground Loop Isolator B25N noise Filter for Car Audio Systems. The Amazon ASIN number is B000LP4RMG, and the price is about \$7.80. Here is the Amazon link: [Ground loop isolator](#)
2. Connect two of the four bare wires of the Rockford Fosgate part to two of Juke's speaker terminals for the zone where the powered subwoofer is located (you can use the left channel, but either should be fine). Please note that this adapter must be connected in parallel with a speaker. If no speaker is connected, Juke senses this and will not provide an output.
3. Plug the corresponding RCA connector of the Rockford Fosgate part into a connector on the Boss part, then connect the same color RCA connector to the RCA input on the powered subwoofer.

Here is what the Rockford Fosgate and Boss parts look like when connected together (this shows both the left and right channels being connected, but only one is necessary):



Here is what the wires from the Rockford Fosgate part look like when they are connected in parallel with the left speaker for a zone:



Amazon Alexa Voice Commands with Juke

Summary

This brief guide explains the steps of how to pair Amazon Echo devices with the Juke Audio amplifier in order to send audio content via voice commands to Juke's connected speakers.

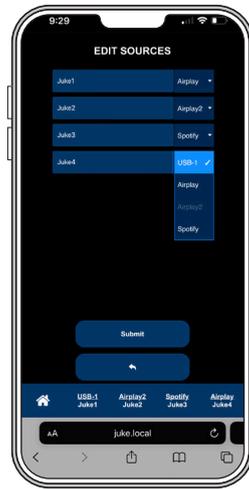
The wired connection

The first step will be to run a hard-wired connection between Juke and an Amazon Echo device in the same way that is required with other analog inputs into Juke. This requires the [USB Digitnow Converter](#) which will plug into the USB port on the Juke and the audio jack on the other side of the converter will plug into the Echo.



Configuring in the Juke web App

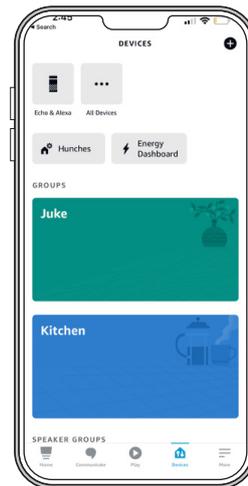
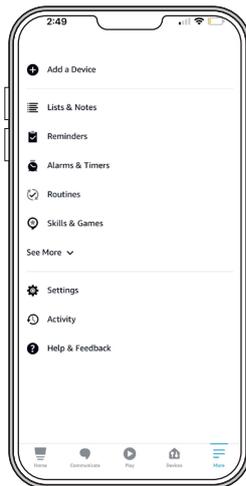
Once you've connected the device to the USB port on the Juke, you must then configure one of the inputs in the administrator settings of the Juke Web App to be USB. Note: The USB option will only appear once you have the adapter connected into the Juke



Configuring your Alexa Devices

First download the Amazon Alexa App in Apple's App store or the Google Play store

Once in the app, hit the "more" tab seen in the bottom right. Then hit add device at the top of the screen to set up your connected devices. Within the setup ensure that all your Alexa devices are on the same Wi-Fi so they can communicate with each other. Each device can be given a specific room name, and in the case of the echo that you connected to Juke, it would make sense to be called "Juke" "Juke Room" "Closet" or any other name of your choosing.



Sending Voice Commands

Once you have your devices configured, you can then issue a voice command to any of the Alexa devices across your house and have it send audio to the Alexa device hard-wired to the Juke which in turn will then send it to the connected speakers.

The voice command you'll say is "Play music in the (name of the room you assigned to the device wired to the Juke)" In my picture for example, it would be "Play music in the Juke"

Volume and Zone Control

Within side of the Juke web app, you'll need to make sure you have the zones turned on for the USB input. In the picture below, you'll see that I have the Fireplace, Dining, and Deck turned on for the USB input, and therefore those will be the zones that start playing audio when I send a voice command to that connected Alexa Device.

You'll also be able to control the volume with the slider listed at the top of the screen.



However, keep in mind that the volume buttons on the echo connected to the Juke will also greatly impact the volume as well.

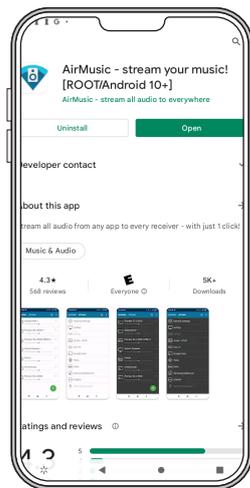
Streaming to Juke from Android via AirMusic

Summary

This brief guide explains the steps of how to stream to Juke from an Android device via an app called AirMusic that mimics the same functionality of streaming via Airplay on an Apple Product. This can be used to stream nearly all major streaming services.

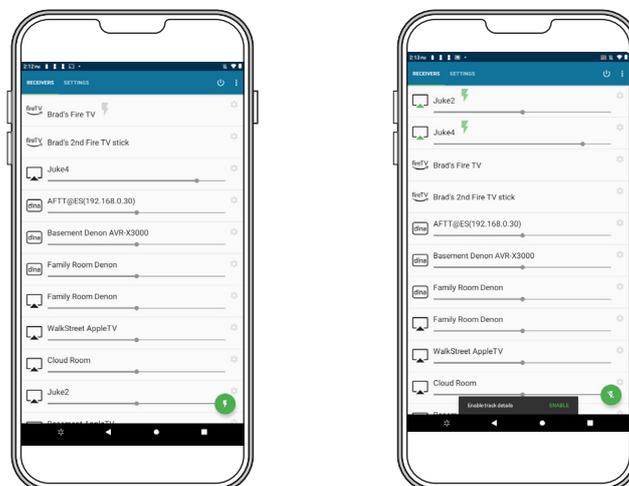
Download the App

In the Google Play, you can download the AirMusic app. Note there is a free version that works temporarily, but the full time version required is \$5.



Select an Input

Once in the app, you will see all your available Airplay Inputs. If you have all of Juke's 4 inputs set to Airplay, and have not yet changed the names of them, you will see them listed as "Juke1, Juke2, Juke3, Juke4". Click on the Airplay input you're looking to stream to, and a unique benefit of AirMusic, is that it will allow you to select multiple airplay inputs and play to them concurrently. Once connected, a green check will appear next to the selected input to signify that your device's audio will now be sent to that input.



The volume slider seen above for each input will serve as the master volume.

Turning the Zones On

Inside of the Juke web app, you must turn the zones for the input(s) that you just connected to in the AirMusic app. This is done in the same way it is for any of Juke's other Airplay inputs.



Song Playing and Volume Control

The final step is to go to your music app of choice (Tidal, Amazon Music, etc.) and beginning playing your music. It's important to note that the audio will also play out of your Android device, unless you use the volume buttons on the side of the device to turn the volume done. Since the music will be playing out of the connected Juke speakers as well, you'll almost always want to have the audio muted on your device. The volume slider seen in the below picture is for what comes out of your device but the volume sliders on the inputs in the AirMusic app is what will control the volume coming out of the speakers.



Troubleshooting

If you are experiencing any issues with your unit, the first step is to check the two indicator lights on the Juke. When the unit is in working condition, the heartbeat light should be blinking, and when the unit is connected to the network, the lighting bolt light should be firmly on. If you are experiencing any issues with your unit, the first step is to try cycling the power on the Juke as well as restarting your device. If the problems persist, then please follow the below sections for troubleshooting and/or file a support ticket with us at jukeaudio.com/support

Networking Requirements

Not able to access the Juke web app and/or see the wireless inputs during installation:

1. Check to make sure your device is on the same network that you have the Juke connected to. Note: Different subnets and guest networks can be an issue in this scenario
2. If hard wired – Juke must be plugged into the ethernet port on your router directly, not the LAN of your cable modem
3. Router must have multicasting enabled
4. Router must have mdns enabled
5. Router must not block known multi-cast addresses
6. Network switches should have IGMP snooping disabled
7. The 2.4 and 5 GHz wi-fi should have the same SSID

All these configurations can be done within your network settings. Most networking equipment companies will have tech support lines you can call to help ensure these settings are enabled for your network.

The power went off and now the Juke web app is not accessible via the IP address

If the power to the unit shuts off, the IP address assigned to the Juke by your router can change. If using a non-Apple product, this will mean you'll need to relocate the new IP address in order to access the Juke web app. You can do so by go to jukeaudio.com/lookup/ and typing in your serial number.

If you'd like to reserve an IP address for Juke so it does not change, see the next section

How to Reserve an IP address for Juke

The exact approach depends on your router so you will need to check its manual. Once you've logged into your router, address reservation is usually in a tab called LAN Setup (or something similar). Within that, there should be a function called "Address Reservation" (or something similar). From there, select ADD, and it should show a list of all the devices on your network (usually this is called the "Address Reservation Table" or something like that). Find Juke in the list, select it, and then click Add. Note the IP address (e.g. the 4 numbers separated by three periods, such as 192.168.1.7). Now you don't need to worry about it getting changed by the router in the future.

Back on your Android, type that address into the browser (e.g. Chrome). The interface should come right up. However, so that you don't have to enter this each time, you'll want to create a shortcut on the Android home screen. How to do that depends on what browser you use. For Chrome, you do this by hitting the three dots near the top right and selecting "Add to Home Screen" from the list of options. Just name it "Juke" and hit Add.

Connection Dropping Out Intermittently

If Juke is connected wirelessly over Wi-Fi and you are experiencing intermittent dropouts in your audio when trying to stream, it is likely a cause of poor signal strength. To help alleviate this we recommend either connecting Juke to a [TP-Link N300](#) with an ethernet cord, or connecting this [Wi-Fi USB adapter](#) directly into one of Juke's USB ports.

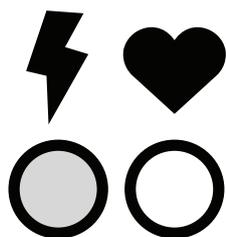
Speaker Wire Connections

Not Getting Output in a Zone

The order that the speaker wiring goes into Juke must be + - + -, which can be different from othersystems. Ifyouarenotexperiencingaudioinaspecificzone,it'simportanttocheckyour wiring and make sure that is the order you have it in. While it can be wired differently in certain scenarios, the common color coordination is red (+), black (-), white (+), green (-). Refer back to install portion of this guide for detailed information on how to connect the wire to the green terminals on Juke.

If retrofitting from an older system with in-wall volume controls, it is important to ensure those are turned with the volume up as those will still function if in between the Juke and where the speakers are installed.

Indicator Lights



Juke has two indicator lights on the unit that demonstrate the condition of the unit. When the Juke is in good health, the lightning bolt icon should remain lit and the heartbeat light should begin blinking repeatedly a minute or so after the power switch is turned on.

Forgot Admin Password

Out of the box the administrator password is set to "Admin". If the password is changed and you'd like to reset it back, go to juke.local/reset.php and click on 'Password Reset'. For android users, you'll need to use your IP address instead of juke.local. For security reasons, you'll need to input the serial number or wireless mac address for your Juke and reboot it within 60 seconds of resetting (otherwise the changes will not be applied). The serial number can be found on the bottom side of your Juke.

Can't access Juke.Local

If you cannot access juke.local, try jukeaudio.local or the IP address directly. If you can reach the IP address but not juke.local, then the network is failing to route multicast/mdns traffic.

Filing a Support Request

If you have reviewed this guide and are still experiencing issues, then we recommend you to file a support ticket for our team to review. You can do so by going to <https://jukeaudio.com/support/> Please make your ticket as detailed as possible to ensure our team has all the information necessary to diagnose the issue and determine a resolution

Safety Instructions

To avoid bodily harm, understand and follow these safety precautions before operating the Juke Audio 6/8 Zone Amplifier:

- 1.To reduce the risk of fire or electrical shock: Do not use this device near water.
- 2.Do not expose the device to dripping or splashing of any liquids.
- 3.Do not place objects filled with liquids near the device.
- 4.Do not expose this device to rain or moisture.
- 5.Clean only with dry cloth.
- 6.Install in accordance with the manufacturer's instructions.
- 7.Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including other amplifiers) that produce heat.
- 8.Do not bypass the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- 9.This device should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- 10.Do not modify the plug provided under any circumstances. Its design is intended for your safety and should not be modified to accommodate an outlet. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 11.Do not place this product on an unstable card, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product.
- 12.Equipment must be connected to a Mains socket outlet with a protective earthing connection.
- 13.Only use attachments/accessories specified by the manufacturer.
- 14.Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 15.Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over
- 16.Unplug this apparatus during lightning storms or when unused for long periods of time.

 www.jukeaudio.com

 877-390-5853

 email@Jukeaudio.com