# WiiM Amp: Stereo Streaming Amplifier

**Model Name: WiiM Amp**
**Model Number: AMP001**

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# 1. INTRODUCTION

At WiiM, our goal is to offer you the simplest and most affordable Hi-Fi, lossless audio systems. Every product we create showcases top-tier design and an intuitive user interface.
With our patented audio streaming solution integrated into all our premium products and user-friendly mobile apps, you can effortlessly enjoy music throughout your entire home.

Introducing the WiiM Amp, the heart of your home audio system. Designed to refine the way you experience music, movie, and more, WiiM Amp combines power, versatility, and simplicity like never before. Whether you're an audiophile or a home theater enthusiast, WiiM Amp delivers exceptional sound quality, reliable connectivity, and intuitive control. With support for streaming services, voice assistants, and automatic software updates, it's the amplifier that keeps getting smarter. Elevate your audio experience with WiiM Amp and unlock a world of immersive sound that's tailored to your unique preferences.

It features an ESS Sabre premium DAC, leveraging ESS' patented 32-bit HyperStream DAC architecture to deliver industry-leading low distortion and wide dynamic range. It boasts a Signal-to-Noise Ratio (SNR) of 135 dB (A-wt) and a Total Harmonic Distortion plus Noise (THD+N) of -120 dB across sample rates from 44.1k to 192k, courtesy of its ultra-low noise clock and optimized power and circuit design. Additionally, it features a cutting-edge TI Burr-Brown PCM1861 ADC, which achieves a 110 dB SNR for analog-to-digital conversion, making it the go-to choice for input sources like turntables, MP3 players, or TVs.

Simply add your speaker to the WiiM Amp, and control it using the user-friendly WiiM Home App, popular platforms like Spotify, TIDAL, Amazon Music, or any Chromecast-enabled apps. Voice control is also a breeze through iPhone, HomePod, compatible Echo and Google Home devices, as well as the included voice remote.

Create synchronized groups with HomePods, Echoes, Google Home, AirPlay 2 devices, Alexa-compatible devices, or additional WiiM devices, and play the same music throughout your home or different songs in separate rooms.

Elevate your passive speaker with the smart and amplification capabilities of the WiiM Amp, delivering high-fidelity, gapless music and enhanced TV audio, all encapsulated within the exceptional innovation of WiiM.

# TYPICAL USE CASES

The WiiM Amp is designed to simply add your speaker and bring it the wireless streaming capabilities and smart features. Here are a few common use cases for the WiiM Amp:

I. **Connect and Power your Favorite Passive Speakers**: Connect and power your traditional wired speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers, integrating them into the wireless streaming system for an elevated audio experience.

II. **Streaming Music and Music Libraries**: Stream music using Apple AirPlay 2, Google Chromecast, Alexa Cast, Spotify Connect or LinkPlay streaming platform, allowing you to access hundreds streaming services such as Spotify, Amazon Music, or Tidal. Plus, stream your personal music library stored on a computer or network-attached storage device for seamless playback.

III. **Podcasts and Internet Radio**: In addition to streaming music, the WiiM Amp provides access to a wide range of podcasts and internet radio stations. You can browse through different genres, podcasts, or specific radio stations to enjoy on your existing audio system.

IV. **High-Quality Audio**: It supports bit-perfect, high-resolution audio up to 192k/24-bit and delivers rich, clear, and undistorted sound at higher volumes.

V. **Multi-Room Audio**: The WiiM Amp is compatible with other 3rd party popular smart speakers and components, or another WiiM/Linkplay device, allowing you to create a whole-home audio system with synchronized music playback in multiple rooms.

VI. **Smart Home Integration**: The WiiM Amp supports voice control through platforms like Apple Siri, Amazon Alexa or Google Assistant, allowing you to control your music hands-free and integrate with other smart home devices.

VII. **Vinyl or CD Integration**: If you have a turntable or CD player that you want to incorporate into your WiiM or AirPlay system, the WiiM Amp can connect to the analog or digital outputs of these devices. This enables wireless audio streaming to other speakers via another WiiM or AirPlay compatible device, allowing you to relish the sound throughout your entire home, all in sync.

VIII. **Home Theater Integration**: Elevate your entertainment experience effortlessly with the WiiM Amp's HDMI ARC port. Plug in your TV and immerse yourself in rich stereo sound for shows, movies, and video games. Craving that extra oomph? Simply add a powered subwoofer to take your audio to cinematic levels. With minimal setup required, the WiiM Amp offers a seamlessly integrated AV system that turns your living room into a home theater paradise.

# OTHER DEVICES NEEDED TO USE WIIM AMP

To use the WiiM Amp, you will need a few essential devices and components. Here's a list of what you'll need:

- Passive Speakers: The WiiM Amp is designed to connect to your passive speakers such as bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. Make sure you have the appropriate speakers in place.

- Wi-Fi Network: The WiiM Amp requires a stable Wi-Fi network connection to function. Ensure that you have a reliable Wi-Fi network available in the area where you plan to set up the WiiM Amp. You'll need the Wi-Fi network credentials during the setup process.

- Smartphone or Tablet: You'll need a compatible smartphone or tablet (iOS or Android) with the WiiM Home app installed. The WiiM Home app is used for initial setup, configuration, and control of the WiiM Amp.

- Power Source: The WiiM Amp needs to be connected to a power source using the included power cable. Ensure that you have an electrical outlet nearby to power the device.

- Ethernet Cable (optional): While the WiiM Amp primarily connects to your Wi-Fi network, it also has an Ethernet port. If you prefer a wired connection for added stability, you can use an Ethernet cable to connect the WiiM Amp directly to your router or network switch.

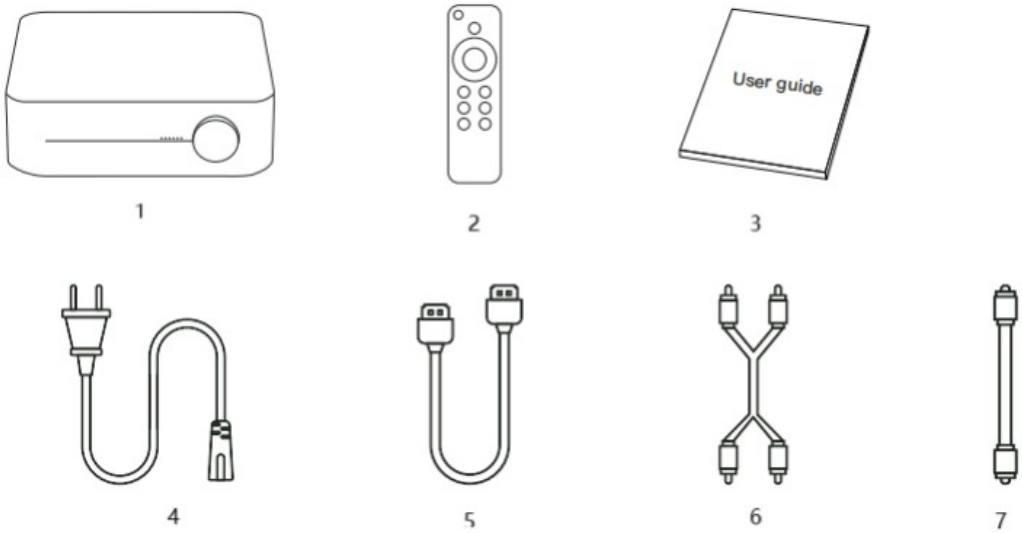
These are the core components required to use the WiiM Amp. It's important to have a pair of speakers that you want to integrate with the Amp, a stable Wi-Fi network, and a compatible device with the WiiM Home app for setup and control.

# AUDIO DEVICES WORK WITH WIIM AMP

The WiiM Pro Amp can work with your passive speakers, including bookshelf, floor-standing, in-wall, in-ceiling or outdoor speakers. Besides the network and Bluetooth streaming music, it can play audio from TV, record player and MP3 player.

## 2. WHAT'S IN BOX

- WiiM Amp
- Bluetooth voice remote
- Quick start guide
- 100~240v AC power cable
- HDMI cable
- RCA audio cable
- Optical audio cable



# 3. TECHNICAL SPECIFICATIONS

| Feature | Description |
|---|---|
| **Power Input** | 100-240V 50/60Hz AC Power |
| **Audio Output Quality** | SNR: 98 dB<br>THD+N: 0.002% (-92 dB) |
| **Network** | 802.11 b/g/n/ac 2.4 GHz and 5 GHz dual band Wi-Fi<br>10/100M Ethernet |
| **Bluetooth** | Bluetooth 5.0, A2DP, AVRCP<br>Support SBC, AAC Codec |
| **Audio Input** | HDMI ARC, Optical, RCA |
| **Audio Output** | Passive Speaker Terminal<br>Subwoofer Output |
| **Audio Codec** | MP3, AAC, ALAC, APE, FLAC, WAV, WMA, OGG, AIFF |
| **Streaming Protocol** | AirPlay 2, Chromecast Audio, Spotify Connect, TIDAL Connect, Alexa Cast, DLNA, Qplay 2.0, Squeezelite |
| **Streaming Services in App** | Spotify, Amazon Music, Deezer, TuneIn, Tidal, Qobuz, SoundCloud, Pandora, iHeartRadio, vTuner, Napster, Sound Machine, etc. |
| **LED** | Three-color status LED - Red, Green, and White<br>Six Volume LED |
| **Controls** | Volume knob, play/pause, and more |
| **Weight** | 1.84 kg (4.1 lbs) |
| **Dimension** | 7.48” x 7.48“ x 2.48" (190 mm x 190mm x 63 |

| | |
|---|---|
| | mm) |

# 4. LIGHT AND CONTROL

# CONTROL AND INPUT/OUT INTERFACE

| Control / IO Interface | Functions |
|---|---|
| **Power** | 100-240V 50/60Hz AC Power |
| **Volume Knob** | Push down to Play/Pause, network or Bluetooth pairing, or restore to the factory setting<br>Turn clockwise: Increase volume<br>Turn anti-clockwise: Decrease volume |
| **Analog Audio In** | Standard RCA |
| **Digital Optical In** | Optical audio input up to 192 kHz/24-bit |
| **HDMI ARC** | Stereo PCM (Dolby Digital and DTS are not supported) |
| **Sub Out** | Connect to the powered subwoofer, 2.0 Vrms |
| **Speaker Out** | Passive speakers terminal (L, R), banana plugs |
| **LAN** | 10/100Mbps Ethernet port |

**LIGHTS**

| State | Color | Flashing/Solid |
|---|---|---|
| **Boot-up** | White | Flashing (fast) |
| **OOBE/Ready to Setup** | White | Flashing (slow) |
| **BT ready to pair** | Green | Flashing (slow) |
| **Connecting to Wi-Fi** | White, Green | Flashing (fast) |
| **Connected to network** | White | Solid |
| **BT mode, paired** | Green | Solid |
| **Aux-in mode** | Green | Solid |
| **OTA** | White, Green | Flashing (slow) |

| | | |
|---|---|---|
| **Restore to factory setting** | White, Red | Flashing (slow) |
| **Not connected to the network (and not in setup mode)** | Red | Solid |
| **Faulty Error** | Red | Flashing (slow) |

**NOTES:**
WGR: Three-color LED, no color mix
W: Wi-Fi as the audio source (product default mode)
G: Audio source from Analog, digital audio input, or BT
R: Error (Not connected to a network or faulty error)
Three modes: Solid, flashing slow, flashing fast

# 5. HOW TO SET UP

## CONNECT AUDIO INPUT PORT ON WIIM AMP

The WiiM Amp features three distinct audio input interfaces: the analog LINE IN, the digital optical (TOSLINK) SPDIF IN, and HDMI ARC.

This versatile device functions as both an amplifier and a network audio transmitter through Wi-Fi or Ethernet. You have the capability to stream analog audio input from sources such as CD players, vinyl players, TVs, or computers to other WiiM devices like WiiM Pro Plus, Pro, or Mini devices, as well as to AirPlay-enabled devices (using AirPlay Cast), either singly or in multiple combinations.

**Scenario 1: Analog Audio Source Input (CD Player, Vinyl Player, or Computer)**

Connect your source device to the WiiM Amp's LINE IN port using a line-in cable. One of two types' cable as the follows might be used, i.e., RCA to RCA or Aux to RCA.

Connect to WiiM Pro Amp's Line IN port

Connect to CD player, vinyl player, TV or computer

Steps to set up the WiiM Amp with the line-in input:
(Perform step 3/4/5 after WiiM Home App is installed)

1. Insert the line-in cable into the LINE IN port located at the back of the WiiM Amp.
2. Connect the other end of the cable to the AUX or LINE OUT port on your audio source device (CD player, vinyl player, TV, or computer).
3. In the WiiM Home app, navigate to the 'Browse' tab, choose 'Select source on device,' then opt for 'LINE IN' to set it as your audio distribution source.
4. For creating a multiroom music group with your WiiM Amp, access the Devices section in the WiiM Home app. Select the WiiM Amp linked to your LINE-IN device, tap the group button (displaying a "link" icon within a box) in the upper-right corner of the device box, and choose the WiiM Amp you wish to transmit audio to.
5. Once done, the music from the device connected to the WiiM Amp will play across your multiroom music group.

**Scenario 2: Digital Audio Source Input (TV or PC)**

Connect your source device to the WiiM Amp's SPDIF IN (optical) port using an optical cable or HDMI ARC with an HDMI cable.

Steps to set up the WiiM Amp with the optical or HDMI IN are the same as Line-in, replacing Line-in with Optical IN or HDMI.

***Notes:***

- *To connect your TV to the WiiM Amp using an HDMI cable, please select HDMI port on your TV marked as 'HDMI ARC'. Please note that connecting to other HDMI ports will not transmit sound to the WiiM Amp.*
- *You can also enable "Autosense" on the WiiM Amp to automatically play your Line-In, Optical-In or HDMI ARC source when WiiM Amp detects a signal. You can enable this feature from the WiiM Home App.*
- *WiiM Amp has a built-in EQ to process the audio input based on your taste. You can also control the audio volume in the App remotely without adjusting your audio input.*
- *Some source devices may require a preamp. For example, some turntables do not have a preamp built-in, so you will need to connect your turntable to an external preamp and then connect the preamp to WiiM Amp.*

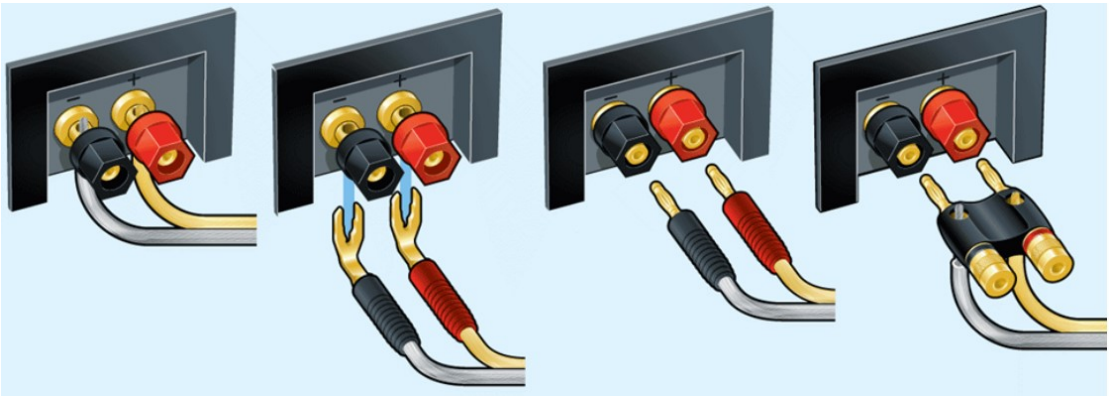
# CONNECT SPEAKER OUT PORT

The WiiM Amp features one pair of passive speaker terminals (shown in figure below) and a separate subwoofer out to connect to powered subwoofer. You can output audio to speaker terminals in stereo or dual mono mode.

Setting Up WiiM Amp Audio Output:

1. Depending on your preferred audio equipment, select the appropriate connection method to your passive speaker: Banana plugs (see figure below) or straight wired connection. Banana plugs are recommended for the best sound and more reliable performance.
2. Connect the other end of the speaker wire to your passive speakers.
3. You're now ready to begin playing audio on your speakers.

There are multiple ways to connect speaker wires to your speakers and WiiM Amp, i.e., bare wire, spade connectors, and banana plugs. Here are some connector examples (credit: Crutchfield).



## POWER THE WIIM AMP

For optimal performance of your WiiM Amp, please ensure to use the AC power cable that is included with your device. This cable is specifically designed to support a wide range of voltages, accommodating 100-240V AC with a maximum current of 4A. This flexibility ensures that your WiiM Amp can be safely and effectively powered in various locations.

**Important Safety Warning**: Before connecting the power to your WiiM Amp, it is crucial to first connect your speakers and any other audio ports. This sequence is important to safeguard both your equipment and the quality of your audio experience. By following this procedure, you ensure a safe and efficient setup process for your WiiM Amp.

# CONNECT TO YOUR NETWORK WITH THE WIIM HOME APP

You can use Ethernet or Wi-Fi to connect WiiM Amp to your network. Before the setup, please download the WiiM Home App. If you want to use the Wi-Fi to connect your WiiM Amp, please have your network password ready.

- **DOWNLOAD THE WIIM HOME APP**

- **Wi-Fi OR ETHERNET SETUP**
    - Power on the WiiM Amp and wait 30 seconds until it fully boots up.
    - Open the WiiM Home App.
    - Click on the device you want to configure.
    - Select the network and enter the correct network password. (Ethernet doesn't have this step)

If you use an **iOS system**, you can also use Apple Wireless Accessary Configuration (WAC) protocol or Home App to set up the device.

- **SETUP with Apple WAC**
    - Power on WiiM Amp and wait 30 seconds until it fully boots up.-
    - Open iPhone settings and tap your selected device's name on the WAC setup section

- **SETUP with Apple Home App**

- Tap the Home app located on the home screen of the iOS device.
- Tap the "+" button located at the top-right corner of the screen.
- Tap “Add Accessory.”
- Tap “Don’t Have a Code or Can’t Scan?”
- Tap your selected device, which MUST be listed under “Nearby Accessories.”

# FILL YOUR HOME WITH SOUND

Immerse yourself in your favorite music and radio stations through seamless Wi-Fi or Bluetooth streaming. With multiple WiiM devices, enjoy music throughout your entire home. Alternatively, connect stereo components like an amplified turntable, CD player, or MP3 player, and simultaneously cast music to multiple WiiM Amp, Pro Plus, Pro, Mini connected speakers, or AirPlay compatible devices via AirPlay Cast.

Expand your audio experience by grouping with AirPlay 2-enabled devices, Amazon Echo, or Google Home, creating a synchronized whole-home audio setup across multiple rooms. Note that grouping with non-WiiM or LinkPlay devices requires the respective apps like Alexa or Google Home app.

When using Amazon Echo or Google Home devices in conjunction with your WiiM Amp, it’s essential to understand the specific capabilities and limitations of this setup. When grouping with Amazon Echo or Google Home devices, the WiiM Amp primarily functions as an audio receiver, playing multiroom audio with Echo or Google Home devices.

It’s important to note that the WiiM Amp cannot transmit its physical audio inputs, such as those from Line-In, HDMI ARC or Optical-In connections, to non-WiiM devices or devices that do not support AirPlay, including Amazon Echo and Google Home devices, over Wi-Fi.

However, the WiiM Amp is capable of transmitting its audio input to AirPlay-compatible speakers. This includes popular options like the Apple HomePod, Sonos speakers, and other devices supporting AirPlay technology.

By understanding these specific functionalities, you can optimize your use of the WiiM Amp in a smart home environment, ensuring seamless integration with your preferred devices.

# AUDIO OUTPUT VIA BLUETOOTH OUT

You can use the WiiM Amp as a Bluetooth source device, enabling seamless pairing with your Bluetooth speakers or headsets.

Please follow the steps below to pair with your Bluetooth audio devices:

1) Launch the WiiM Home App on your iOS or Android device.
2) Select ‘**Device**’ Tab and tap the gear icon for device settings.
3) Select the ‘**Audio Output**’ setting and opt for ‘**Bluetooth**’ to establish a connection with an external Bluetooth receiver, such as an amplifier or speaker.
4) Start playing music.

# AUDIO OUTPUT VIA AIRPLAY CAST

You can use the WiiM Amp as an AirPlay source, seamlessly connecting with AirPlay-enabled speakers like the HomePod.

Here’s how to set up AirPlay Cast step-by-step:

1) **Launch WiiM Home App**: Open the App and tap the 'Device' tab.
2) **Access Device Settings**: Select your WiiM device, then tap the Gear Setting icon to access the device-specific configurations.
3) **Navigate to Audio Output**: Go to 'Audio Output' to configure WiiM Amp’s output.
4) **Select AirPlay Receiver**: Choose the 'AirPlay Receiver' and tap the 'Connect' to pick your casting device.
5) **Choose Your Device**: A list of available AirPlay 2-enabled devices will appear. If your desired speaker isn't listed, tap the 'Refresh' icon to update your device list.
6) **Select Your Receiver**: Pick your AirPlay 2 receiver, even multiple devices.
7) **Play Your Audio**: Finally, select your preferred audio and hit 'Play'.

# 6. VOICE CONTROL

With voice control, you can navigate and interact with your device to search, play, stop, or skip music and more.

When voice control is configured, you can speak commands as you would act by touch.

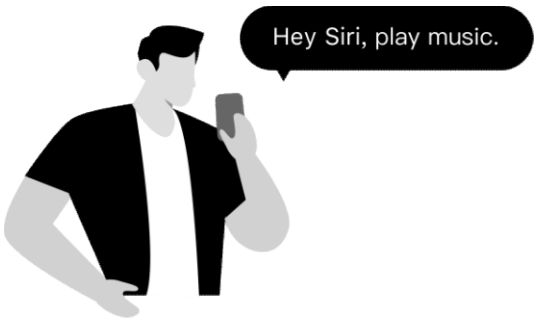
## WORKS WITH ALEXA

Download the Amazon Alexa App and turn on Amazon devices or 3rd party Alexa built-in devices.

- Setup your Amazon account for your WiiM device

  If your WiiM device is not logged into your Amazon account in the WiiM Home App,
  - Open WiiM Home App, click “Browse -> Amazon Alexa -> Sign in to Amazon."
  - Log in to your Amazon account
- Open the Amazon Alexa app
- Tap the "Devices" at the bottom of the page.
- Tap the "+" in the top right corner.
- Tap "Combine speakers,” then select “Multi-room music."
- Select the configured Echo or other Amazon devices and the configured WiiM Amp device
- Click "Next" and choose the group name (i.e., Bedroom)
- Amazon Alexa app prompts that the group has been created.
- Try "Alexa, play some music in the Bedroom” for the multi-room audio with Echo. Or
- Choose the WiiM device as the preferred speaker. Thus, you don't need to say your device name when using Alexa.

## WORKS WITH SIRI

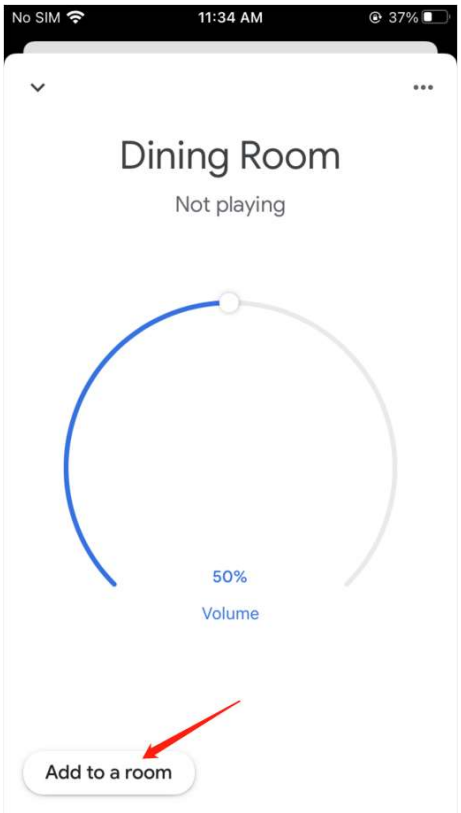


- Configure one to more devices
- Open a music app (like Apple Music) and select a track to play
- Tap .
- Select your speaker/speakers or Home Pod
- Say “Hey Siri, stop the music/Play music” on your phone or HomePod

## WORKS WITH GOOGLE VOICE ASSISTANT

Let’s assume you’ve set up your Google Home and WiiM Amp separately. Now, you must link them together in the Google Home app for Android or iOS:

- Open the Google Home app, and you will find the WiiM Amp enabled as a Chromecast audio device under “Local devices.”
- Tap the name of the WiiM Amp and enter the device control UI.
- Tap the “Add to a room” button under the volume circle to add WiiM Amp to one room.
- You can use voice to control the WiiM Amp with your Google Home or Android devices.



# 7. DIRECT CONTROL VIA YOUR FAVORITE APP

You can stream from your favorite apps directly to your WiiM Amp with the following approaches.

Depending on your mobile devices and music service, there may be multiple ways to stream from your music app to WiiM devices. I.e., if you use Spotify App on iOS device, you can use either Spotify Connect or AirPlay 2. However, Spotify Connect gives you better audio quality compared with AirPlay 2 and liberate your phone for other tasks.

## SPOTIFY CONNECT

Spotify Connect is a way of playing Spotify through your wireless-compatible device over Wi-Fi. That means you can play your favorite tunes anywhere in the house without the need for convoluted Bluetooth pairing between devices whenever you want to listen to music.

Spotify Connect works from smart phone, tablet or PC that functions as a remote control for Spotify. Both free and premium account are supported. Go to Spotify.com/connect to learn more. It's the best way to play Spotify on WiiM device giving the best possible audio quality and streaming experience.

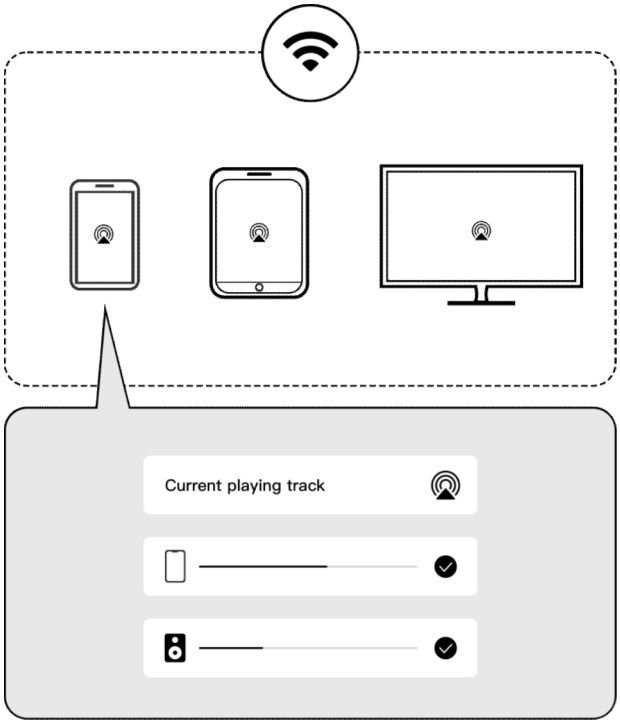
The Spotify Software is subject to third-party licenses found here:
https://www.spotify.com/connect/third-party-licenses

To use Spotify Connect with multiroom or stereo pairing, you can first group multiple WiiM devices on WiiM Home App then stream Spotify to the grouped devices. The group name is the same as the name of master device (i.e., the first device showing in the device list for the group).

## AIRPLAY 2

WiiM device turns your speaker into an AirPlay 2-enabled speaker to stream the music you love from iOS, Mac, and PC devices or stream audio from Apple TV. It's an easy and affordable way to connect your Apple devices to your favorite audio equipment and upgrade to an AirPlay 2 receiver.

AirPlay 2 lets you stream music from your iOS, MAC, PC, and Apple TV device to more than one product to create a multiroom audio experience over Wi-Fi.




**NOTES:**

• To use AirPlay 2, you need an Apple device running iOS 11.4 or later.

• Your Apple device and WiiM device must be connected to the same Wi-Fi network.

• For more information about AirPlay 2, visit: https://www.apple.com/airplay

You can either start the AirPlay 2 streaming from the music App or the iOS control center. The steps are shown below for both cases.

**STREAM AUDIO FROM THE CONTROL CENTER**

1. On your Apple device, open the Control Center.
2. Tap and hold the audio card in the top-right corner of the screen, then tap the AirPlay icon .
3. Select your WiiM device.

**STREAM AUDIO FROM AN APP**

1. Open a music app (like Apple Music) and select a track to play.
2. Tap .
3. Select your WiiM device.

# TIDAL CONNECT

TIDAL is a global music streaming platform bringing fans closer to artists through unique experiences and the highest sound quality. Stream your favorite music seamlessly from TIDAL App straight to your devices in the highest possible quality.

TIDAL Connect is a feature that allows you to stream music from the TIDAL App to compatible devices. It's similar to Apple AirPlay and Spotify Connect in that it lets users stream music to connected devices from within the App. This means you can use your smartphone or computer as a controller to play music on WiiM device.

WiiM Amp also supports MQA decoder for the TIDAL Connect up to 24-bits/96 kHz and Hi-Res FLAC up to 24-bits/192 kHz if you subscribe to TIDAL Hi-Fi+ tier.

To use TIDAL Connect, you need to launch the TIDAL App on your mobile device. Then find and play a song you like and head to the 'Now Playing' screen. Touch on the 'cast' icon at the top right on the ‘Now Playing’ screen and select a WiiM device from the list.

# AMAZON MUSIC CAST (ALEXA CAST)

Alexa Cast is a feature that allows you to play and control music on any of your Alexa devices from your Amazon Music iOS or Android app. You can discover all your Alexa devices from your music app. Your devices do not need to be on the same Wi-Fi network as your mobile device. You can target any device from anywhere. Once you pick a target device, the music you selected on your App will start playing on the chosen device. You can now follow along on your App. When you tap skip on your App, your device skips to the next track. Your App becomes a remote control for the device.

WiiM Amp is one of the first devices that support Alexa Cast with bit-perfect output up to 192 kHz/24-bit. Thus, you can listen to your Amazon Music Ultra HD directly from the native Amazon Music to WiiM Amp in the highest possible quality.

To use this, please log in to your Amazon account for Amazon Alexa on the WiiM Home App. Also, make sure you have the latest version of the Amazon Music app. Next, on the "Now Playing" screen, you will see a casting icon in the top right. Tapping the icon will bring up the list of all your available Alexa devices for you to select.

Once you have started casting, you can still use voice to control the music playing on the device. You can switch between using your voice and your App based on your convenience. When you want to stop casting to a device and resume playing on your phone, you will have to pull up the device list and tap the disconnect button.

# CHROMECAST AUDIO

Chromecast audio lets you instantly stream your favorite music, radio, or podcasts from your favorite Chromecast-enabled apps on the mobile device to your speakers over Wi-Fi. Once you have set up WiiM Amp, you can enable Chromecast from the WiiM Home companion app. Then, open a compatible app on your smartphone or tablet and tap the Cast button. This will allow you to select your WiiM Amp and start streaming audio to it.

Most music apps on both iOS and Android already support Chromecast such as Spotify, Apple Music, TIDAL, Amazon Music, YouTube Music and Deezer. You can also cast any audio from your Chrome browser by selecting ‘Menu’ > ‘Cast’.

Chromecast can also be used for multi-room audio, playing music in sync to multiple speakers from compatible brands and WiiM Amp, using the Google Home app.

# DLNA

DLNA stands for Digital Living Network Alliance. It is a trade organization that sets standards and guidelines for home networking devices, including PCs, smartphones, tablets, smart TVs, Blu-ray Disc players, home theater receivers, and media streamers, among others. When a DLNA certified device is added to a home network, it can automatically communicate and share media files with other connected DLNA products on the network.

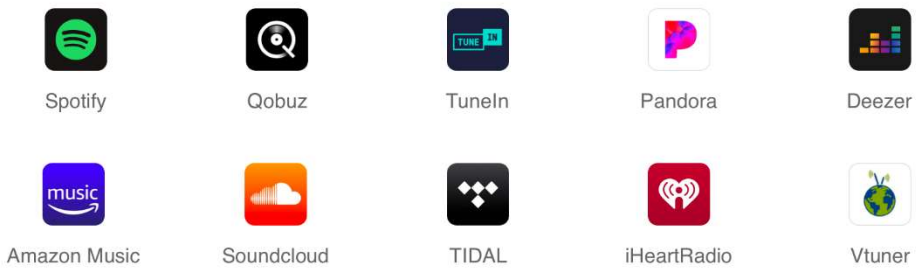
WiiM Amp is the DLNA digital media render. When it’s connected to the same network as your other DLNA devices or apps, it appears in the menus of other networked components. Your computer and other media devices discover and recognize the WiiM Amp without any setup.

You can control the WiiM Amp from other DLNA digital media player or controller. You can also play content to the WiiM Amp from other DLNA digital media servers, all without additional setup.

# 8. ALL MUSIC IN ONE APP

With the free WiiM Home App, you can control your content and devices from one place. We support many popular music streaming services in the App, such as Spotify, iHeartRadio, Tidal, Amazon Prime Music and Unlimited, SoundCloud, Qobuz, Pandora, Deezer, TuneIn & more to come. You can also play music stored in your mobile device, local network media servers, or personal cloud server.

The App supports the unified search across multiple music services and your local network for artist, track, station, playlist, etc. It's a powerful tool to discover your favorite content from your online and local library.




The WiiM Home App supports equalization (EQ) with two options: 24 EQ presets, a 10-band graphical EQ, and a 4-band parametric EQ. These EQ settings can be assigned to different sources, such as AUX, Optical or HDMI in, online music, or Bluetooth streaming.

The App has twelve music presets that allow you to save your favorite station, playlist, album, etc., and access them later with the preset button on the remote, or the App with one tap.

# 9. MULTIROOM AND STEREO PAIRING

With the WiiM Amp, it's easy to build your wireless multiroom sound system with other AirPlay 2 speakers, Amazon Echo (or Alexa built-in devices) or Google Home. You can create an even more flexible multiroom sound system with multiple WiiM Amps, Pro Plus, Pros Minis, and your existing audio devices.

## LINKPLAY MULTIROOM/STEREO PAIRING

With our proprietary multiroom scheme, all types of audio input, including Wi-Fi, BT, analog Line in, or digital SPDIF in, can be used as the audio source for the multiroom system.

In addition, you can group two speakers connected with WiiM devices as a stereo pair for a wider, more immersive sound stage. It supports all four input options too. Thus, it can work with almost every music listening option.

- Configure two or more devices.
- Open WiiM Home App.
- Select the device and click the plus sign in the upper right corner " + "
- Select the other WiiM device, click "Done"
- Click the LR icon" L " and set the device to "L/R/LR"
- Select Browse tab, choose your music to play.

## AMAZON ALEXA MULTIROOM

**TIP:** Download Amazon Alexa App and get ready with Echo or other Amazon devices.
For detailed steps please refer to 6.1.

Since the WiiM Amp is an Alexa Cast audio receiver, not a transmitter, it can't transmit the Line-in, HDMI, or Optical-in audio to other Alexa-enabled devices such as Echo.

## MULTIROOM WITH CHROMECAST AUDIO DEVICES

You can group WiiM Amp with other Google Home or Chromecast audio enabled devices to play the same music on all devices via the Google Home App.

- Enter Google Home App, tap the “+” in the top left corner
- Tap “Create speaker group” to create a speaker group
- Select the devices that are in the same network
- Give a group name
- Stream music to the group

Since the WiiM Amp is a Chromecast audio receiver, not a transmitter, it can’t transmit the Line-in, HDMI ARC, or Optical-in audio to other Chromecast audio devices such as Google Home.

# 10. AUDIO INPUT VIA LINE IN OR SPDIF IN

Unlock the full potential of the WiiM Amp by employing it as a network audio transmitter via Wi-Fi or Ethernet. You can seamlessly stream analog or digital audio input from devices like CD players, vinyl players, TVs, or computers to other WiiM connected devices, or AirPlay compatible speakers such as HomePod or Sonos.

To set up your WiiM Amp with Line-IN:

1. Insert the line-in cable into the LINE IN port on the WiiM Amp's rear.
2. Connect the other end of the cable to your record player.
3. In the WiiM Home app, navigate to ‘Browse’ tab > Select source on device > LINE IN, and designate LINE IN as the audio source.
4. Form a multiroom music group with your WiiM Amp. In the WiiM Home app, go to Devices and choose the WiiM Amp linked with your LINE-IN device. Tap the group button (depicted by a "link" icon within a box) at the upper right corner of the device box. Select the desired WiiM Amp for audio transmission.
5. To cast audio to a wide array of AirPlay 2-enabled devices, please select from the list of the AirPlay receivers on “Now Playing” UI or device settings.

Upon completion, the music from the connected device will play across your multiroom music group.

You can follow the same procedure using the SPDIF input port of the WiiM device if your source device offers a digital audio output via SPDIF.

Additionally, you can enable the "Autosense" feature on the WiiM device, allowing it to automatically play your Line-In, HDMI ARC, or Optical-In source upon detection of a signal. This feature can be activated within the WiiM Home App.

The WiiM device features a built-in EQ to tailor audio input to your preferences. Moreover, you can control audio volume remotely through the app, eliminating the need to adjust the audio input directly.

Note that certain source devices may require a preamp. For instance, some turntables lack a built-in preamp, necessitating connection to an external preamp before linking to the WiiM Amp.

# 11. AUDIO OUTPUT VIA SPEAKER OUT

The WiiM Amp features one pair of passive speaker terminals and a separate subwoofer out to connect to powered subwoofer. You can output audio to speaker terminals in stereo or dual mono mode.

Setting Up WiiM Amp Audio Output:

1. Depending on your preferred audio equipment, select the appropriate connection method to your passive speaker: Banana plugs or straight wired connection. Banana plugs are recommended for the best sound and more reliable performance.
2. Connect the other end of the speaker wire to your passive speakers.
3. You're now ready to begin playing audio on your selected output devices.

Audio Output Via BT Out (BT sourcing mode):

- Open the WiiM Home App on your iOS or Android device.
- Select Device Tab, and tap the device setting gear icon.
- Tap the Audio Output setting and select Bluetooth to connect to an external Bluetooth device (such as an amplifier or speaker)
- Start playing music.

# 12. STREAM AUDIO WITH BLUETOOTH

With Bluetooth wireless technology, you can stream tunes from various devices like smartphones, tablets, TVs, and laptops. To start streaming, first pair your device with the WiiM Amp.

**Simple Pairing Process:**

- **Manual pairing**: To pair your device manually, simply press and hold the volume knob on the WiiM Amp for 3 seconds to initiate pairing mode.

- **App-Assisted Pairing**: If your WiiM Amp is connected to your network, you can enable the Bluetooth pairing directly from the WiiM Home App. Just navigate to the 'Browse' tab and select the 'Bluetooth' as your input source. In this case, if there's no device connected to the WiiM Amp, the App will initiate pairing mode for WiiM Amp automatically.

The Bluetooth feature is compatible with A2DP and AVRCP profiles, and supports both SBC and AAC codecs.

# 13. ADVANCED FEATURES

## FIRMWARE UPDATES

- WiiM Amp updates automatically when connected to your Wi-Fi network.
- Upgrades happen from 2:00-5:00 a.m. in your time zone. During the silent upgrade, there will be no sound and no indication. Upon opening the App, you will see the latest updates made to WiiM Amp.

## USE ETHERNET INSTEAD OF Wi-Fi

When an Ethernet cable is connected, the WiiM Amp will automatically switch off Wi-Fi to use the Ethernet network. To confirm which connection is active, open the WiiM Home App, go to the 'Browse' tab, and scroll down to the 'Select Audio Source' section at the bottom. If Ethernet is being used, it will display 'Ethernet' instead of 'Wi-Fi.'

# 14. FAQ

If you experience problems with the audio streamer, try these solutions first:

- What can I do if my WiiM Home App can't find the device?

  - Make sure your network is available and the device is powered on properly.
  - Check the LED on the device is solid white.
  - Make sure your device and WiiM Amp are connected to the same Wi-Fi network.
  - Make sure you have the latest version of the WiiM Home App on your device.
  - Try restarting your device, WiiM Amp, and router.
  - If still can't find, reconfigure the device to the network.

- What can I do if my device has no sound?

  If you are not getting any sound from your WiiM Amp, make sure you have checked the following things:

  - The volume level on the WiiM Amp.
  - The physical connections between WiiM Amp and your speakers, are connected correctly and securely.

- Audio dropout or no sound on AirPlay 2?

  If you experience no sound with AirPlay 2 but has sound with other service, please check if the progress bar of music app on your Apple device is moving.

  - Check network connectivity: Ensure the signal of your WiiM Amp and your streaming device are strong. Move the WiiM Amp and the streaming device closer to your wireless router or access point to improve the signal strength.
  - Restart your network devices: Power cycling your network devices, including your router, modem, WiiM Amp, and streaming devices, can often resolve connectivity issues.
  - Update firmware and software: Ensure that your WiiM Amp and all devices involved in the AirPlay 2 setup have the latest firmware and software updates installed. Additionally, update your streaming device (e.g., iPhone, iPad, Mac) to the latest version of iOS, iPadOS or macOS.
  - Reset the WiiM Amp: As a last resort, you can try performing a factory reset on your WiiM Amp and set it up again.

- What can I do if my device cannot power on normally?
  - Check the device LED status and ensure it's on.
  - Ensure the original power cable is used.

## SUPPORT

If you are unable to resolve your issue, please send us a ticket through the App or send us an email about the issue you're experiencing.

WiiM Home App: Settings > Feedback, Settings > FAQ
Website: faq.wiimhome.com/support/solutions
Email: support@wiimhome.com
Product User Guides: wiimhome.com/guides

## RESETTING WIIM AMP

Press and hold the play/pause for 10s until you will hear the voice prompts of "Restore to factory setting" and see the light flashing red and white.

Factory reset clears all source, volume, and network settings for WiiM Amp and returns it back to the original factory settings.

# 15. IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

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 a dry cloth.
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 (including amplifiers) that produce heat.
9. Protect the power cord 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. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as external power supply, power-supply cord 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. To reduce the risk of fire or electrical shock, do NOT expose this product to rain, liquids or moisture.
14. Do NOT expose this product to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the product.
15. Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.
16. Do NOT make unauthorized alterations to this product.
17. Do NOT use in vehicles or boats.
18. Use this product only with the power supply provided.
19. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Due to ventilation requirements, does not recommend placing the product in a confined space such as in a wall cavity or in an enclosed cabinet.
21. Contains small parts which may be a choking hazard. Not suitable for children under age 3.
22. This product contains magnetic material. Consult your physician on whether this might affect your implantable medical device.
23. Do not place or install the bracket or product near any heat sources, such as fireplaces, radiators, heat registers, or other apparatus (including amplifiers) that produce heat.

# 16. CE/FCC Statements

**RF Exposure Information:** The equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

**FCC Statement:**
This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For radio equipment operates in 5150-5850MHz
High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage to LE LAN (Licence-Exempt Local Area Network) devices. No configuration controls are provided for this wireless equipment allowing any change in the frequency of operations outside the FCC grant of authorization for US operation according to Part 15.407 of the FCC rules.

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit; for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

CAN ICES-003(B)/NMB-003(B)

Énoncé d'exposition aux rayonnements FCC/IC
L'équipement est conforme aux limites d'exposition aux rayonnements FCC/IC RSS-102 établies pour un environnement non contrôlé. L'équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Les radars de puissance élevée sont attribués comme utilisateurs principaux des fréquences de 5,25 à 5,35 GHz et Bandes de 5,65 à 5,85 GHz. Ces stations radar peuvent causer des interférences avec
Et/ou dommages aux périphériques LE LAN (réseau Local exempté de licence). Non non
Des contrôles de configuration sont fournis pour cet équipement sans fil permettant toute
Modification de la fréquence des opérations en dehors du FCC octroi d'autorisation
Pour les opérations américaines conformément à la partie 15.407 des règles de la FCC.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;
le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

**CE Statement:**
RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and the human body.

Do not use the device in the environment at too high or too low temperature,
never expose the device under strong sunshine or too wet environment.
The suitable temperature for the product and accessories is 0℃-40℃.

**Operating frequency range and maximum transmit power**
Bluetooth transmit frequency range: 2402MHz - 2480 MHz
Bluetooth transmit power: ≤9 dBm (EIRP)

Wi-Fi network: IEEE 802.11 a/b/g/n/ac (2.4GHz/5GHz)
2.4G Wi-Fi transmit frequency range: 2412 - 2472 MHz (2.4 GHz ISM Band, USA 11 Channels, Europe and others 13 Channels)
2.4G Wi-Fi transmit power: ＜20 dBm (EIRP)

5G Wi-Fi transmit frequency range: 5.15 - 5.35GHz, 5.470 - 5.725GHz, 5.725 - 5.850GHz
5G Wi-Fi transmit power:
5.15 - 5.25GHz < 20 dBm (EIRP),
5.25 - 5.35GHz & 5.470 - 5.725GHz < 20 dBm (EIRP),
5.725 - 5.825GHz < 14 dBm (EIRP)

Note: This power is for EU only
Attention in European Union, operation is limited to indoor use within the band 5150-5350 MHz.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | AT | BE | BG | HR | CY | CZ | DK |
| | EE | FI | FR | DE | EL | HU | IE |
| | IT | LV | LT | LU | MT | NL | PL |
| | PT | RO | SK | SI | ES | SE | UK |
| | CH | IS | LI | NO | TR | | |

**This product can be used across EU member states.**

**EU Regulatory Conformance**
Hereby, Linkplay Technology Inc. Corporation declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and UK Radio Equipment Regulations 2017.

Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

CE