adertech

# MPAMP-1030
# MPAMP-1060
# MPAMP-1120




## Multifunctional Mixer Amplifier Series Media Streaming Player

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## 1. Introduction

ADERTECH MPAMP-1xxx series are mixer amplifiers which offer high quality audio amplifying for professional and commercial use. This single channel digital power amplifier's family consists of three models with rated power from 30W to 120W. The power outputs support different load type from 4Ohm to 100V, the analog stereo unbalanced line output is also provided to link signal to other equipment. All the models offer 5 analog input channels for connecting balanced and unbalanced sources. Microphone input with phantom power is also supported. Besides analog inputs MPAMP amplifiers featured with Multifunctional Media Player. It allows to play FM radio, digital audio content locally from TF card and USB disk, or remotely via Bluetooth or WiFi connection. Controlled from an Android or iOS smart phone, the Media Player is compatible with freely available apps to stream music and podcasts directly from a network. Embedded iRadio offers high quality digital audio from almost any online radio station or podcast available worldwide. Subscription services can store online playlists which can be cast directly from the without requiring the smart phone to be connected. This way MPAMP unit provides a versatile "hands off" background music solution for continuous playback of music from services or a choice of other sources for bars, cafes, restaurants, reception areas and house parties. The mobile application supports multiple zones or multiple rooms' modes. This way volume and content control are easy for both commercial and home audio applications. Amplifiers equipped with universal power supply with wide range input voltages support from 115 to 230V. Units housed in the compact and robust chassis and use passive cooling.

## 2. Features

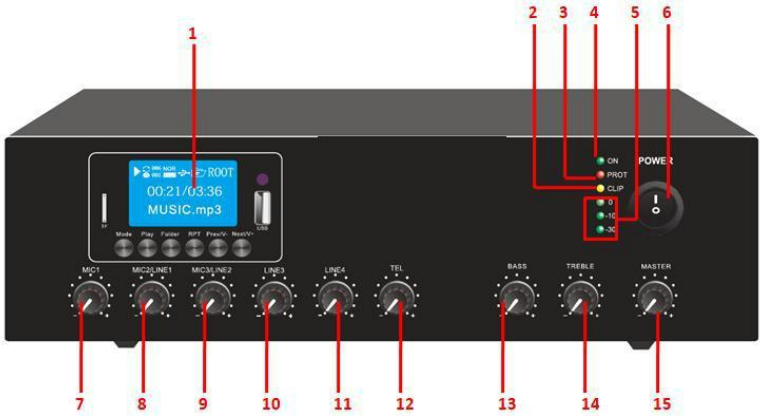
- Single channel Class D power amplifier
- Power rated from 30W to 120W depending on model
- Low or High impedance outputs 4/8/16Ohm or 70/100V speakers
- 1x XLR Balanced Microphone Input with Phantom power and Priority features
- 2x Jack 6.3mm Unbalanced selectable Microphone/Line and 2x RCA Unbalanced Stereo Inputs
- 1x Telephone Input with Priority and 1x Music on Hold output for Telephony integration
- MIC1 and TEL priority input selection
- Integrated Media Player with WiFi, MP3 (SD, USB), Bluetooth and FM radio functions
- Media Player Control by the included IR remote or unit's front panel
- Free Legacy Player app for Android or iOS, with multiple zones mode supported
- Support Streaming Services, Spotify, DLNA, Airplay, iRadio and online radio stations
- Separate mixing level controls for Analog Input and Media Player
- Bass, Treble and Master Output level controls
- Short circuit, overload, high temperature, signal clipping protection
- LED indicators for power, clip, protect and signal level
- Integrated wide range AC power supply and emergency 24V DC power input
- Compact and quiet unit, good for table top usage

## 3. Package Contents

1x Mixer Power Amplifier Unit
1x IR Remote Control
1x FM Antenna
1x AC Power Cord
1x User Manual

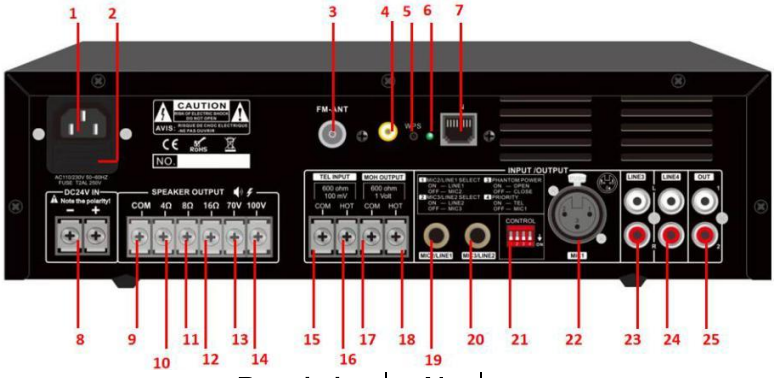
## 4. Unit's interfaces

### 4.1 Front Panel




| N | Description | N | Description |
|---|---|---|---|
| 1 | Media Player module | 9 | Mic/Line Input 3 Attenuator |
| 2 | Power indicator | 10 | Line Input 3 Attenuator |
| 3 | Protection Indicator | 11 | Line Input 4Attenuator |
| 4 | Clip Indicator | 12 | Tel Input Attenuator |
| 5 | Output Level Meters | 13 | Bass Output Control |
| 6 | AC power switch | 14 | Treble Output Control |
| 7 | Mic1 Attenuator | 15 | Master Volume Control |
| 8 | Mic/Line Input 2 Attenuator | | |

### 4.2 Rear Panel




| N | Description | N | Description |
|---|---|---|---|
| 1 | AC Power Socket | 14 | Speaker output 100V(+) |
| 2 | AC fuse | 15 | Telephone set input COM (-) |
| 3 | FM Antenna Connector | 16 | Telephone set input HOT (+) |
| 4 | WiFi Antenna Connector | 17 | Music on Hold output COM (-) |
| 5 | WPS button | 18 | Music on Hold output HOT (+) |
| 6 | WiFi Status Indicator | 19 | Dynamic Microphone 2/Line 1 Input |
| 7 | LAN port of RJ45 | 20 | Dynamic Microphone 3/Line 2 Input |
| 8 | 24V DC Input | 21 | Input Ports Settings DIP Switch |
| 9 | Speaker output COM (-) | 22 | Condenser/Dynamic Microphone Input 1 |
| 10 | Speaker output 4 Ohm (+) | 23 | Unbalanced Stereo Line Input 3 |
| 11 | Speaker output 8 Ohm (+) | 24 | Unbalanced Stereo Line Input 4 |
| 12 | Speaker output 16 Ohm (+) | 25 | Unbalanced Stereo Line Output |
| 13 | Speaker output 70V(+) | | |

NOTE: **DC24V IN** on 2-pin Screw Terminal - connect to a reserve/emergency 24V DC power, input will be used automatically if mains AC fails.

## 4.3 External Connection

Please be careful and accurate when connecting sources and speakers to the amplifier. The wrong connection may affect not only to audio quality, but may set unit to abnormal state and even damage the equipment. Check connection guidance and schemes below.

### Connecting the Sources

Connect signal sources according their signal types to appropriate inputs:

- **MIC1** input on XLR connector supports for balanced signal from microphone. It could deliver phantom power when condenser type of microphone is used. This input has priority feature.
- **MIC2/LINE1** and **MIC3/LINE2** are universal inputs or Jack 6.3mm connectors support for unbalanced signal sources and could be configured as microphone or line inputs.
- **LINE3/LINE4** inputs on 2x RCA connectors support for analog unbalanced stereo sources.
- **TEL** input on screws terminal support for connecting a telephone set or PABX system as paging source. This input has priority feature and could be used as alarm input also.

The **MIC1** and **TEL** inputs have priority over all other inputs. When a signal detected on these inputs all other signals will be muted for an announcement. After an announcement made, the system will return to its normal operation through the fade in. The priority between **MIC1** and **TEL** inputs could be selected by DIP switch settings.

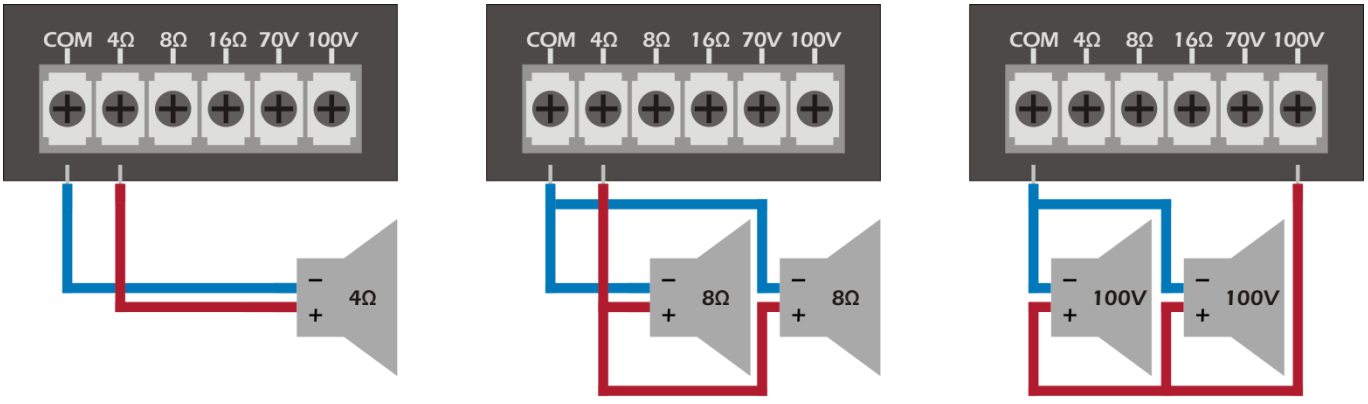
| DIP N | Description | DIP N | Description |
|---|---|---|---|
| 1 | Input Mode ON – LINE 1/ OFF – MIC 2 | 3 | MIC1 Phantom Power ON / OFF |
| 2 | Input Mode ON – LINE 2/ OFF – MIC 3 | 4 | Input Priority ON – TEL / OFF – MIC1 |

### Connecting the Outputs

The MPAMP mixer amplifiers series units featured line level and power outputs:

- **LINE OUT** on the 2x RCA connectors could be used to feed the mixed signal to the next amplifier to scale the PA system. Please be noted that Master Volume control doesn't affect to this output, while the EQ control on Bass and Treble potentiometers do.
- **MOH OUTPUT** on screws terminal could be used to feed signal as Music on Hold to the telephone system or PABX for people who is waiting to be answered.
- **SPEAKER OUTPUT** on the screw terminal used to connect speakers to the amplified outputs.

Amplifier allows of connecting low or high impedance speakers to its output terminals. These terminals are providing three different low voltage outputs: **4Ω**, **8Ω**, **16Ω** and two high voltage outputs: **70V** and **100V**. The connection scheme always depends on the speaker parameters.




Single 4Ω Speaker
Total load 4Ω

Two 8Ω Speakers in Parallel
Total load 4Ω

Two 100V Speakers in Parallel
Total load depends on taps

NOTE: **Only one contact of output terminal 4/8/16Ohm/70V/100V should be connect to the speakers at the one time. Never connect low impedance speakers to high impedance outputs or visa-versa. Never short output terminals!**

### Connecting 70V/100V Line

For high voltage 70V/100V systems, connect the amplifier to the first speaker in the system using double-insulated speaker cable which has adequate wires for current rating to handle the total output of the amplifier.
Connect the **70V** or **100V** output terminal of the amplifier to the positive (+) terminal of the speaker and **COM** output to the negative (-) terminal of the speaker. Connect further speakers (if present) in parallel to the first speaker with all positive terminals and connected together and all negative terminals connected together as shown on previous scheme. A high voltage line of the speaker system can comprise of many speakers connected together. The determining factor for how many speakers can be used on a single channel of the amplifier is its power rating. For most purposes, it is advised to connect as many speakers as needed with a combined wattage of no more than 90% of the amplifier output power rating.

The high voltage terminals of speaker are connected through a transformer and in the most cases, this transformer has several taps with different power ratings. These taps can be used to adjust the wattage (which reflects on the maximum output volume) of each speaker in the system to help achieve the best total power load of the system for the amplifier. Always read speaker's manual and check correct taps configuration on each speaker before power the amplifier.

## 4.4 Operation Steps

When all connections to the amplifier are made, turn all input channels mixer rotary controls down and turn the power switch on, after that **ON** LED on the front panel will illuminate.

- Turn **BASS** and **TREBLE** controls to the 12 o'clock position (pointing straight up) and turn **MASTER** rotary control up part way for testing.
- Ensure a signal is being fed to one of the line inputs. Slowly gradually increase the volume control for that channel until the output is heard through the speakers. Turn up the **MASTER** to the maximum required volume level and reduce the channel volume control if necessary.
- If a microphone is connected, gradually increase its volume control whilst speaking into the microphone until the required volume level is reached. The microphone should not be able to be fed signal from the speakers, which can cause feedback (squealing or howling noise).
- When a signal is present on **MIC1** and/or **TEL** inputs the audio playback from other input channels will be muted according priority settings. Use corresponding attenuator to increase or decrease the mute activating level.
- Additionally to the **MASTER** volume controls, there are EQ controls for **BASS** and **TREBLE** ranges which allows adjusting the tone of the overall output. At the 12 o'clock position, these controls are applying no effect to the signal (no boost or cut). Turning the **BASS** control clockwise boosts the low frequencies in the audio on output, whilst turning it counterclockwise will cut low frequencies. In the same way, turning the **TREBLE** control clockwise boosts the high frequencies in the audio, whilst moving it counterclockwise will cut high frequencies. Adjust these EQ controls to suit the type of audio signal or compensate for the room acoustics.
- The output level of the amplifier is represented by the front panel meter LEDs. It is normal if the **CLIP** Red LED flash momentary during the use. In case if it is lit constantly, it may indicate distortion or clipping of the output signal and the MASTER control should be turned down.

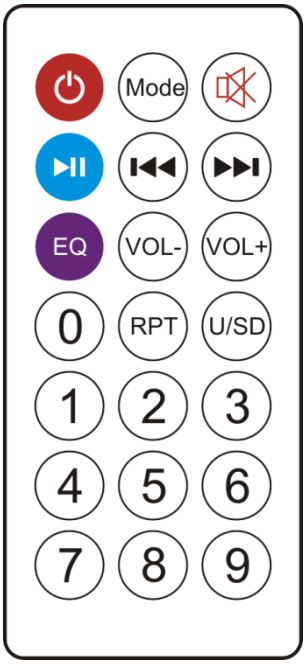
NOTE: all the initial tests can be made without analog sources, using the built-in Media Player only. Check the Media Player Operation section for its control and functions details.

## 4.5 Media Player Operation




| N | Description | N | Description |
|---|---|---|---|
| 1 | TF card slot | 6 | Play Button |
| 2 | LCD display | 7 | Folder Button |
| 3 | IR sensor | 8 | RPT Button |
| 4 | USB connector | 9 | Prev / V- Button |
| 5 | Mode Button | 10 | Next / V+ Button |

The MPAMP mixer amplifiers series enforced with a built-in media player which includes SD/USB/Bluetooth/FM/WiFi features. Current state will be displayed as icons on the LCD on the front panel of the module.




The included IR remote allows controlling the operating of the media player remotely, up to 10 meters in the direct line of site. Control keys functions are simple for understanding and intuitive for use. Remote uses standard CR2025 battery.

**EQ Modes**: Normal, Rock, POP, Classic, Jazz, Vocal.

**Play Modes**: Normal, Repeat Track, Random Play, Repeat Folder, Repeat All.

The front panel buttons function depends on the current Player Mode. At the same time some buttons have constant functions regardless to the selected mode.

**Mode** button functions:

- short press will switch media player between the modes: USB/SD/Bluetooth/FM/WiFi. The active mode will be displayed on the LCD on the front panel of the module.
- long press will turn the media player off, the front panel display will off. To turn the module on shortly press Mode button once more.

**Prev /V-** (Previous/Volume Decrease) and **Next /V+** (Next /Volume Increase) buttons functions:

- short press will select previous/next object depends on the Player's Mode.
- long press will decrease/increase the output volume level of the Media Player. The volume range is from 00 to 30 will be displayed on the LCD display.

NOTE: there is no additional control for WiFi mode except volume – check the paragraph **4.6 Remote Application Usage** – for more details.

## Media Player (SD/USB)

The Media Player allows of playing the digital audio content from USB or SD card. In case, if a SD card/USB disk is inserted the playback will switch to it automatically. To start playing manually switch Media Player to SD card or USB mode by pressing **Mode** button.

| Button | Pressing Type | Front panel buttons function in SD/USB Mode |
|---|---|---|
| **Play** | Short | Play / Pause the current track |
| **Folder** | Short | Open the Next Folder |
| **RPT** | Short | Change Playback Mode (Normal, Repeat Track, Random, Repeat Folder, Repeat All) |
| **Prev/V-** | Short | Play the Previous Track |
| **Next/V+** | Short | Play the Next Track |

## Bluetooth

The Bluetooth function allows connection of a smart phone or tablet to the media player module for playback of stored files or streamed digital audio. In order to enable this function, it will be necessary to pair the mobile device to the Media Player as follows:

1. Switch Media Player to Bluetooth mode.
2. Open the Bluetooth connection settings on the mobile device.
3. Scan for active Bluetooth devices.
4. Search for **BT66078** device (name could be changed) in the list of available devices.
5. Connect to the **BT66078** , use PIN **1234** to establish the pair.
6. Play audio content from the mobile device.

| Button | Pressing Type | Front panel buttons function in Bluetooth Mode |
|---|---|---|
| **Play** | Short | Play / Pause the current track |
| **Folder** | Short | EQ Mode Switch (Normal, Rock, POP, Classic, Jazz, Vocal) |
| | Long | Changing the Bluetooth Name |
| **RPT** | Short | No function |
| **Prev/V-** | Short | Play the Previous Track |
| **Next/V+** | Short | Play the Next Track |

NOTE: Bluetooth name could be changed for easy understanding which device is being used, in case when several units are used near each other. To change Bluetooth name – long press on **Folder** button, wait for the **Name Set** and current Bluetooth name will be displayed on the LCD. Then short press the **RPT** button to select between (BT66078, Bluetooth, MONACOR, TRONIX). Using the short pressing on **Prev/V-** or **Next/V+** buttons additional numbering could be added to the Bluetooth name in range of (00...99). When the changing of the name is finished – shortly press **Play** button and switch Module Off/On to apply new name settings.

## FM Tuner

Media Player allows storing and playing FM radio stations in range of 87.5 – 108.0MHz. Up to 99 of Radio Station could be stored in Module Memory to be recalled. To switch Module to FM Radio use the **Mode** button.

| Button | Pressing Type | Front panel buttons function in FM Radio Mode |
|---|---|---|
| **Play** | Short | Save the current frequency as new Station |
| | Long | Clear All Saved Stations |
| **Folder** | Short | Manual Tuning - Step down with -0.1MHz |
| **RPT** | Short | Manual Tuning - Step up with +0.1MHz |
| | Long | Start Auto Tuning for whole |
| **Prev/V-** | Short | Switch to Previous Saved Radio Station |
| **Next/V+** | Short | Switch to Next Saved Radio Station |

## 4.6 Remote Application Usage

### Important Notes & Troubleshooting Tips of Wi-Fi Connection

- Please ensure you carefully read and understand all system instructions and functions to allow for optimum performance & safe operation.
- RESTORE DEFAULT SYSTEM SETTINGS: Press and hold down the WPS button for ~15 seconds to restore the unit to factory settings. (Any saved wireless networks will be forgotten and you will be able to re-establish and reconfigure new wireless connections). (Please pay more attention: If the same mobile phone has finished the first wireless connection, then no need to press WPS button again.)
- Ensure all speaker and power wires/cables are connected securely.
- Before establishing any type of wired or wireless connection, ensure the unit is powered on.
- Blinking/flashing indicator lights indicate the receiver is ready for connection – with regard the designated connection method.
- Once an indicator light stops blinking and remains solid, a successful connection has been established.
- The unit may fail to successfully establish a connection if the surrounded area is populated with multiple neighboring networks. If possible, deactivate neighboring networks or re-locate the wall plate receiver to an area free of networks.
- The 'MUZO Player' App is available for download on iOS and Android devices. Download and install the app before attempting to make any type of wireless connection.

### The Muzo Player App



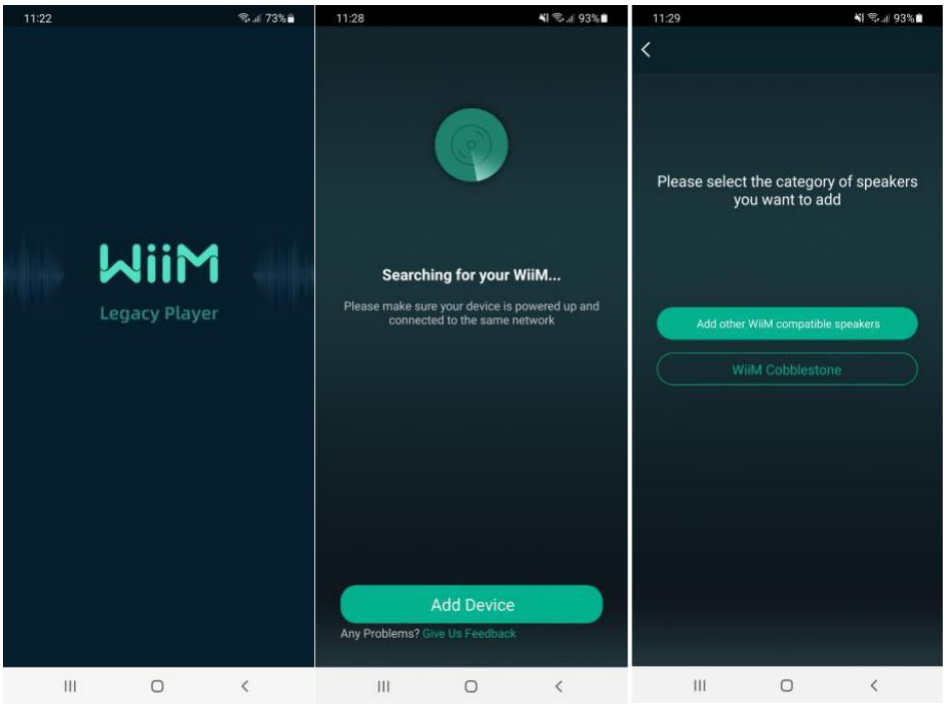
- Conveniently Access Your Music Library
- 'Multi—Room Mode' Connects Multiple Devices & Rooms
- Compatible with Spotify, iHeartRadio,Tidal,TuneIn & More
- Available for iOS and Android
- Free to Download

### Smart Phone & Setup

On your smart phone, download the Legacy Player application by Linkplay Tech.
For iOS devices, download the Legacy Player app from the App Store.
For android devices, download the Legacy Player app from the Google Play Store.

If your router has a WPS feature, pressing this and then a short press of the WPS button on the amplifier can link to your local network, making setup easier.
Otherwise, follow all steps below to connect your smart phone and amplifier to the wireless network. Open the Legacy Player app and the welcome screen will be followed by a Searching screen.

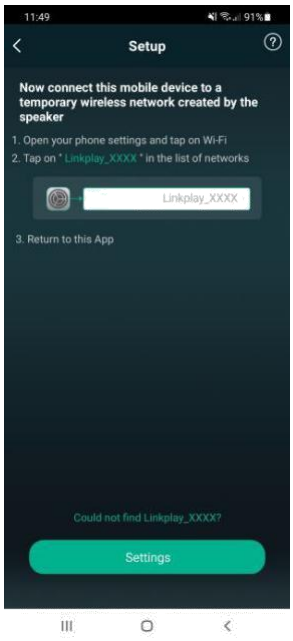
If the amplifier has already been connected to the local, the Searching screen will confirm that it has found 1 or more devices. The app will then jump to the Device List page (shown in following pages)




If the amplifier is not detected, select Add Device.
The next screen asks for the category of speakers to be added.
For the amplifier, select WiiM Cobblestone.

## Local Connection

Once WiiM Cobblestone is selected, a further screen will instruct to search and connect to "Linkplay_XXXX", as shown opposite. In the case of the amplifier, the correct ID to search for will be Linkplay_ XXXX where XXXX is the ID number of the amplifier.

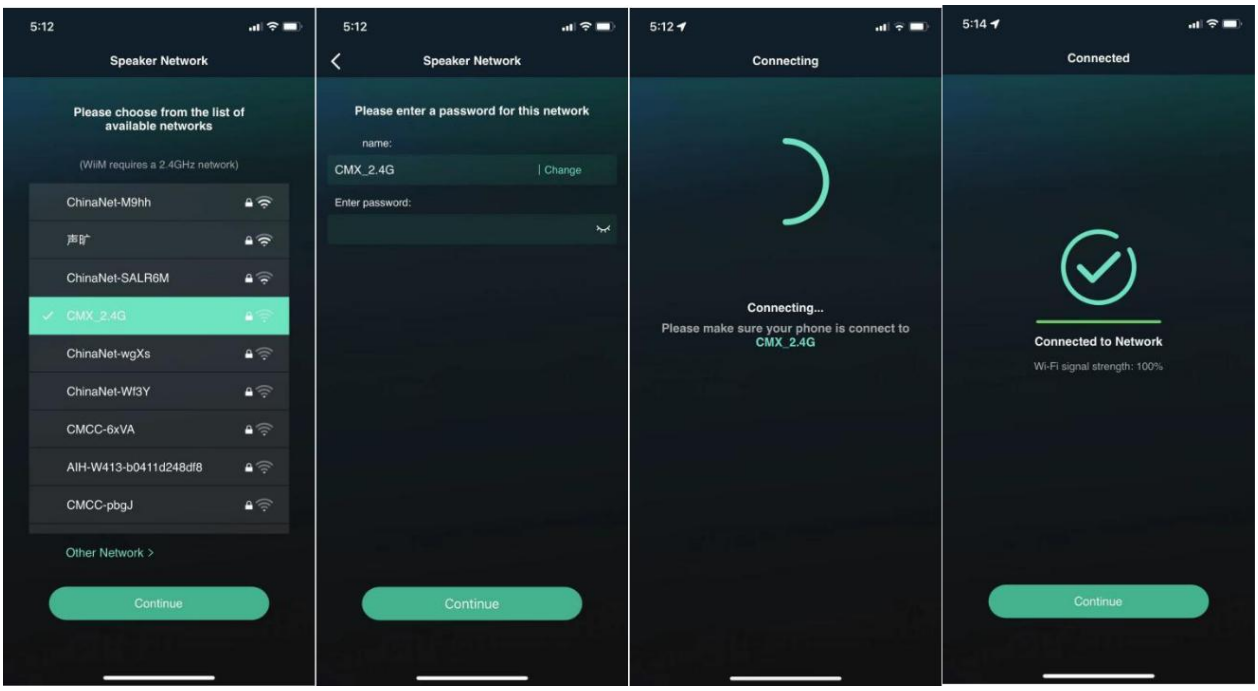



Select Settings to go to the in-app settings menu.
In the settings menu, all available access points within wireless range will be displayed.

Look for Linkplay_XXXX and select it for connection. The smart phone will release any current connection and attempt to connect directly with the amplifier.

If there is any difficulty connecting or if the amplifier is not appearing as a device to connect to, briefly press the WPS button on the front panel.
When successfully connected, will be without access.

Select < at the bottom of the screen to return from the settings menu back to the Legacy Player app and the next screen will ask to connect the amplifier to the local network.
The Speaker Network screen will normally show default network that the smart phone was connected to before, but there is an option to Change if a different one is preferred. Enter the password as required and select Continue
NOTE: the must operate on the standard 2.4GHz band for the amplifier to join the network. The amplifier and smart phone will now begin the connection process.

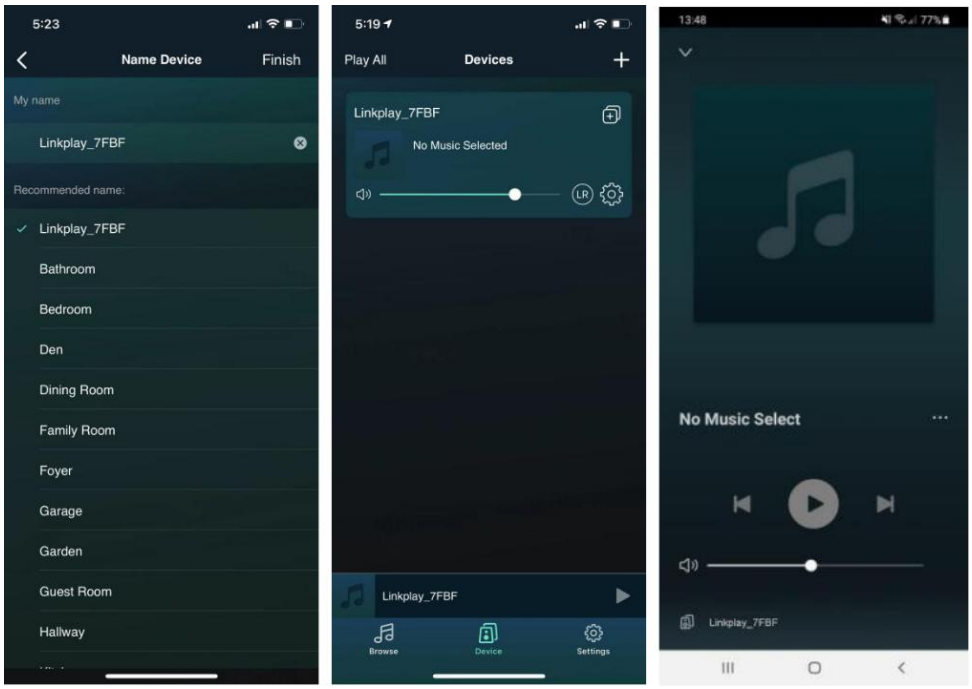



## Naming the Device

Once connected, a notification will appear to confirm this, showing the signal strength.
Select Next to see the Name Device page, which enables the user to give the amplifier a label to describe its audio zone. Select a name (or create a custom name).
After naming, the amplifier, select the > arrow at the top of the screen.

## Device List

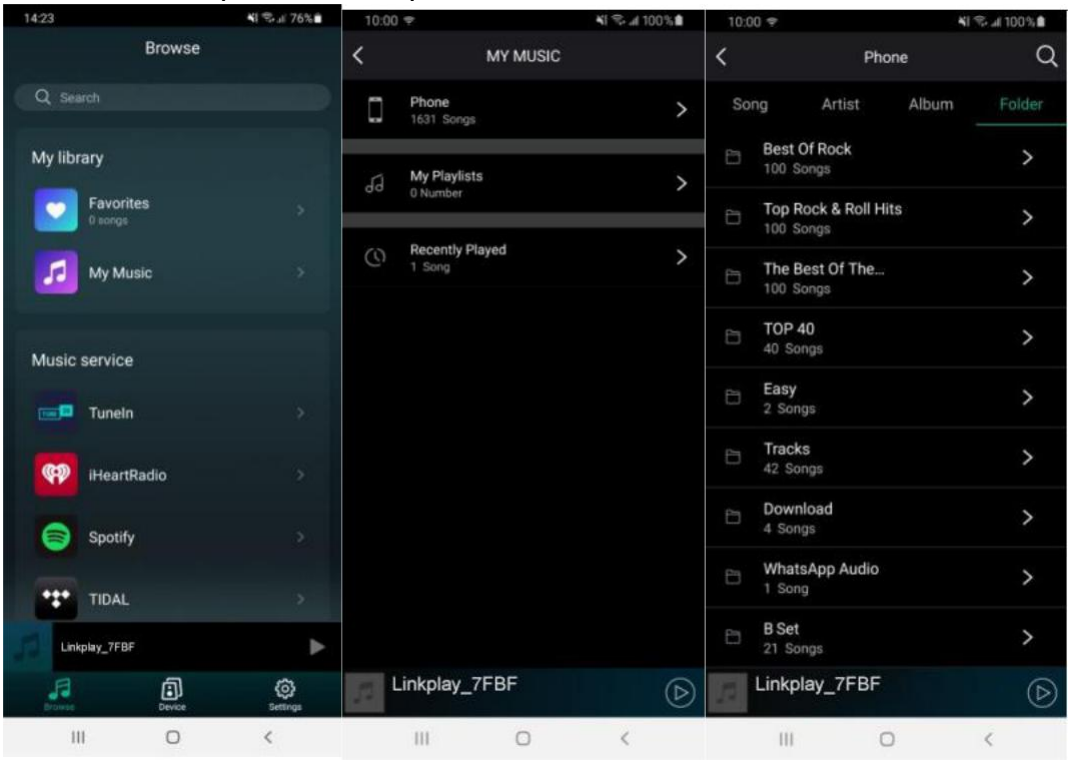
In the next page, the amplifier will appear in the Device List.
Several amplifiers may be listed with different names if required, all controllable from the app.
Tapping the symbol opens a Settings menu for that specific amplifier.
Selecting an amplifier unit and tapping its status bar at the bottom will expand the page for that unit.



On an individual amplifier's main page, the current playing track will be displayed with any album art, a progress bar and playback controls.
Tap Down Setting symbol to go back to the Device List page, below the status bar are icons for Browse/Device/Settings.
Device is the current page and Settings will display the app Version information and a feedback form.
Browse is the main page for selecting media for playback, as described in detail on the following pages.

## Browse Menu

Selecting Browse opens a page showing a list of available free and subscription playback sources.
At the top of this page is a Search option to save time when looking for specific program material.
Below this is a Favorites option, where preferred sources or tracks can be selected and stored.




The My Music option enables playback of tracks or playlists stored locally in the smart phone.

Locally stored tracks can be listed by Song, Artist, Album or Folder for convenience.

The smart phone must remain connected to the same as the Amplifier to maintain playback.

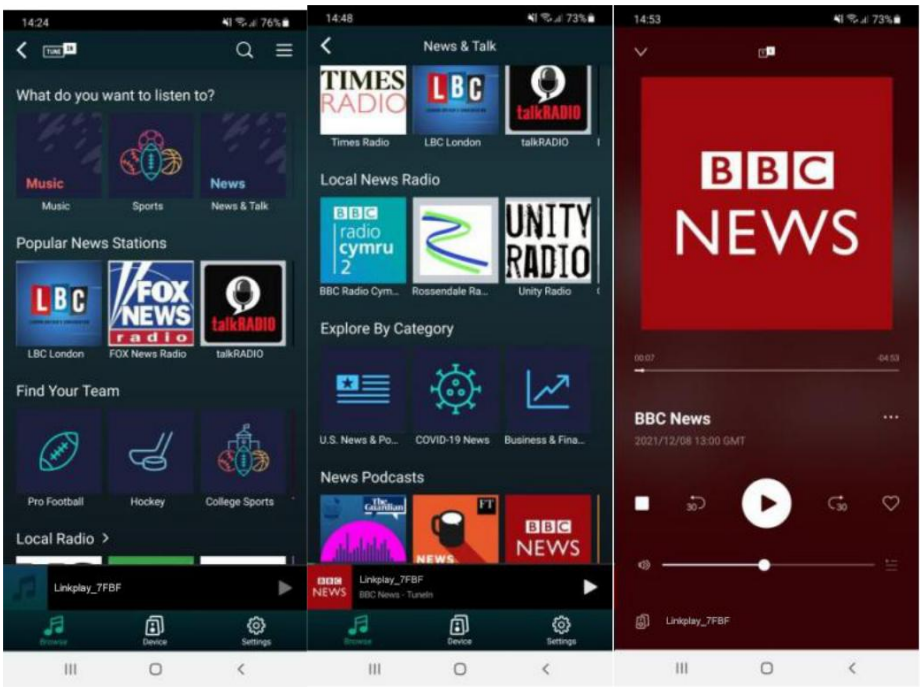
Going back to the main Browse list, some of the listed Music services require a subscription and may be added or removed from the list as required via the + icon at the bottom of the list.

For radio services, TuneIn and iHeart Radio (U.S. only) are included.

Selecting the TuneIn service is described as an example on the following page.

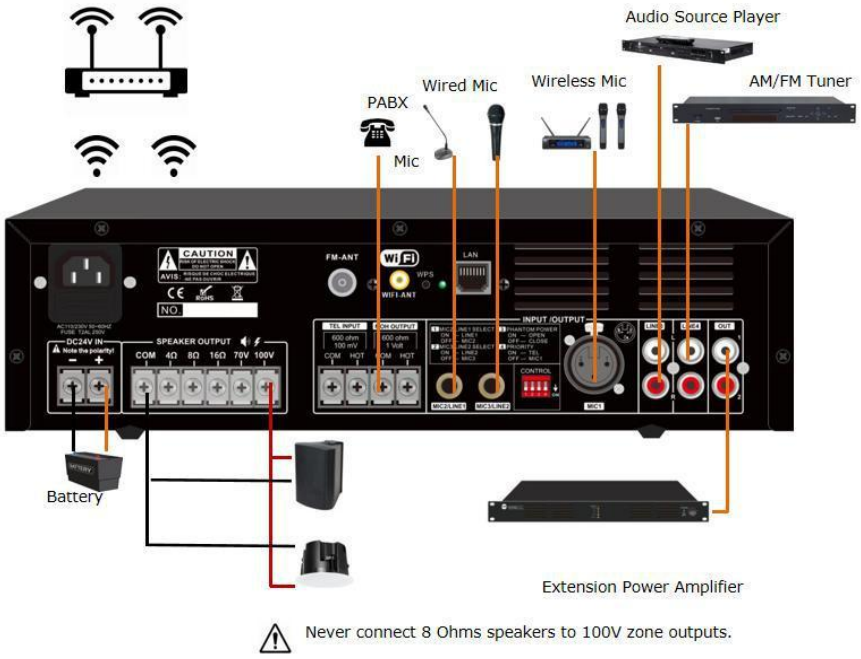
## TuneIn Application

TuneIn is a free-to-use app with optional paid versions for premium features.
Using this service allows user to browse any online radio station listed by locality or genre. Selecting a radio station sets playback to stream directly from the smart phone to the Amplifier. Once streaming is initiated, connection to the smart phone is not needed except for further control.




When the smart phone or other sending device is disconnected from the local , the Amplifier will continue to stream the audio file(s), playlist, podcast or radio station that is currently playing.
To change the audio stream or output level via the smart phone, it is necessary to connect the smart phone to the local and open the Legacy Player app for control. When the Amplifier is powered down, the audio stream may need to be re-set when powered on again.

## 4.7 Connection Diagram



## 5. Best Practice

ADERTECH's engineers design products at the highest quality standards. To get the best results and maximum performance from our products, please read this manual carefully. We recommend using high quality connectors, cables, and adapters only. Consider the points below when you choose accessories and position equipment.

## 6. Safety Instructions

**WARNING:** To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. Do not use this device near water. Clean only with a dry cloth.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device. This unit must be connected to an earthed mains socket outlet with the supplied cable. The AC wall outlet should be installed near to the unit and be easily accessible.

If using cables or extenders which run a long distance, the protective earth circuit of the socket should be verified by a skilled person to ensure equipotential earth bonding. Do not use unit on objects or installations where power lines have grounding and/or different phase issues.

Unplug units during lightning storms or when unused for long periods of time.

Do not install unit near any heat sources such as radiators, heat registers, stoves, or devices (including amplifiers) that produce heat. Do not block any ventilation openings. This unit uses active cooling with fans. Do not install unit in dusty and/or dirty places. Use professional equipment racks with air condition and filters.

## 7. Warranty Information

ADERTECH warrants all units to be free from defects in workmanship and materials, under normal use and service, for a period of three (3) years from the date of purchasing from authorized reseller.
If a product does not work as it warranted during this period, ADERTECH will repair or replace the defective product or its part. Replacement products may be new or reconditioned.

Warranty ends if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or servicing other than by ADERTECH or its authorized centers, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

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# 8. Specifications

## 8.1 MPAMP-1030

| SKU | MPAMP–1030 |
|---|---|
| Type | Mixer Power Amplifier with Media Player |
| Rated Power | 1x 30W (4Ohm, 8Ohm, 16Ohm, 70V, 100V) |
| Class | D |
| Frequency Response | 60Hz – 15KHz |
| Signal/Noise Ratio | Line>85dB, Mic>72dB |
| THD | <0.5% |
| | |
| **Interfaces** | |
| **Inputs** | 1x balanced audio, mono, XLR (MIC with phantom power supported) |
| | 2x unbalanced audio, mono, 6.3mm Jack (MIC/LINE) |
| | 2x unbalanced audio, stereo, 2x RCA |
| | 1x telephone line, 2-pin screw terminal, 100 mV, 600 Ohm |
| MIC | 5 - 8 mV, 600 Ohm |
| Line | 150 - 470 mV, 10 KOhm |
| | |
| **Outputs** | 1x unbalanced audio, stereo, 2x RCA |
| | 1x telephone MoH, 2-pin screw terminal, 1V, 600 Ohm |
| | 1x 4Ohm, 8Ohm, 16Ohm, 70V, 100V, COM, 6-pin screw terminal |
| | |
| **Control** | |
| Local | Front Panel Power Switch and Local Control with LEDs, LCD |
| Indication | Power, Protect, Clipping and Signal Levels LED Status |
| Network | 1x Ethernet, RJ45 |
| | |
| **Misc** | |
| USB | 1x USB A Socket, Media Player Content Port (front panel) |
| SD Card | 1x SD Card Slot, Media Player Content Port (front panel) |
| WiFi | 1x External Antenna, SMA Connector (rear panel) |
| FM-Radio | 1x FM Pal, 75Ohm, (87.5 – 108.0MHz), External Antenna (rear panel) |
| Emergency Power | 1x 24V input, 2-pin screw terminal (rear panel) |
| | |
| **Safety** | |
| Cooling | Passive |
| Protection | Short circuit, overload, high temperature, signal clipping, DC |
| | |
| **Electrically** | |
| Power Consumption | 60W (Max) |
| Power Supply | Internal, switching, DC 24V, AC 110 / 230V, 50/60Hz |
| | |
| **Mechanical** | |
| Housing | Metal Enclosure |
| Color | Black |
| Dimensions (LxWxH) | 320 x 210 x 90 mm |
| Weight | 3.6 kg |
| | |
| **Environments** | |
| Operating Temperature | 0˚C ~ 40˚C |
| Storage Temperature | -20˚C ~ 70˚C |
| Relative Humidity | 10%~90% RH (non-condensing) |

## 8.2 MPAMP-1060

| SKU | MPAMP–1060 |
|---|---|
| Type | Mixer Power Amplifier with Media Player |
| Rated Power | 1x 60W (4Ohm, 8Ohm, 16Ohm, 70V, 100V) |
| Class | D |
| Frequency Response | 60Hz – 15KHz |
| Signal/Noise Ratio | Line>85dB, Mic>72dB |
| THD | <0.5% |
| | |
| **Interfaces** | |
| **Inputs** | 1x balanced audio, mono, XLR (MIC with phantom power supported) |
| | 2x unbalanced audio, mono, 6.3mm Jack (MIC/LINE) |
| | 2x unbalanced audio, stereo, 2x RCA |
| | 1x telephone line, 2-pin screw terminal, 100 mV, 600 Ohm |
| MIC | 5 - 8 mV, 600 Ohm |
| Line | 150 - 470 mV, 10 KOhm |
| | |
| **Outputs** | 1x unbalanced audio, stereo, 2x RCA |
| | 1x telephone MoH, 2-pin screw terminal, 1V, 600 Ohm |
| | 1x 4Ohm, 8Ohm, 16Ohm, 70V, 100V, COM, 6-pin screw terminal |
| | |
| **Control** | |
| Local | Front Panel Power Switch and Local Control with LEDs, LCD |
| Indication | Power, Protect, Clipping and Signal Levels LED Status |
| Network | 1x Ethernet, RJ45 |
| | |
| **Misc** | |
| USB | 1x USB A Socket, Media Player Content Port (front panel) |
| SD Card | 1x SD Card Slot, Media Player Content Port (front panel) |
| WiFi | 1x External Antenna, SMA Connector (rear panel) |
| FM-Radio | 1x FM Pal, 75Ohm, (87.5 – 108.0MHz), External Antenna (rear panel) |
| Emergency Power | 1x 24V input, 2-pin screw terminal (rear panel) |
| | |
| **Safety** | |
| Cooling | Passive |
| Protection | Short circuit, overload, high temperature, signal clipping, DC |
| | |
| **Electrically** | |
| Power Consumption | 100W (Max) |
| Power Supply | Internal, switching, DC 24V, AC 110 / 230V, 50/60Hz |
| | |
| **Mechanical** | |
| Housing | Metal Enclosure |
| Color | Black |
| Dimensions (LxWxH) | 320 x 210 x 90 mm |
| Weight | 4.1 kg |
| | |
| **Environments** | |
| Operating Temperature | 0°C ~ 40°C |
| Storage Temperature | -20°C ~ 70°C |
| Relative Humidity | 10%~90% RH (non-condensing) |

### 8.3 MPAMP-1120

| SKU | MPAMP–1120 |
|---|---|
| Type | Mixer Power Amplifier with Media Player |
| Rated Power | 1x 120W (4Ohm, 8Ohm, 16Ohm, 70V, 100V) |
| Class | D |
| Frequency Response | 60Hz – 15KHz |
| Signal/Noise Ratio | Line>85dB, Mic>72dB |
| THD | <0.5% |
| | |
| **Interfaces** | |
| **Inputs** | 1x balanced audio, mono, XLR (MIC with phantom power supported) |
| | 2x unbalanced audio, mono, 6.3mm Jack (MIC/LINE) |
| | 2x unbalanced audio, stereo, 2x RCA |
| | 1x telephone line, 2-pin screw terminal, 100 mV, 600 Ohm |
| MIC | 5 - 8 mV, 600 Ohm |
| Line | 150 - 470 mV, 10 KOhm |
| | |
| **Outputs** | 1x unbalanced audio, stereo, 2x RCA |
| | 1x telephone MoH, 2-pin screw terminal, 1V, 600 Ohm |
| | 1x 4Ohm, 8Ohm, 16Ohm, 70V, 100V, COM, 6-pin screw terminal |
| | |
| **Control** | |
| Local | Front Panel Power Switch and Local Control with LEDs, LCD |
| Indication | Power, Protect, Clipping and Signal Levels LED Status |
| Network | 1x Ethernet, RJ45 |
| | |
| **Misc** | |
| USB | 1x USB A Socket, Media Player Content Port (front panel) |
| SD Card | 1x SD Card Slot, Media Player Content Port (front panel) |
| WiFi | 1x External Antenna, SMA Connector (rear panel) |
| FM-Radio | 1x FM Pal, 75Ohm, (87.5 – 108.0MHz), External Antenna (rear panel) |
| Emergency Power | 1x 24V input, 2-pin screw terminal (rear panel) |
| | |
| **Safety** | |
| Cooling | Passive |
| Protection | Short circuit, overload, high temperature, signal clipping, DC |
| | |
| **Electrically** | |
| Power Consumption | 200W (Max) |
| Power Supply | Internal, switching, DC 24V, AC 110 / 230V, 50/60Hz |
| | |
| **Mechanical** | |
| Housing | Metal Enclosure |
| Color | Black |
| Dimensions (LxWxH) | 320 x 210 x 90 mm |
| Weight | 4.7 kg |
| | |
| **Environments** | |
| Operating Temperature | 0˚C ~ 40˚C |
| Storage Temperature | -20˚C ~ 70˚C |
| Relative Humidity | 10%~90% RH (non-condensing) |