

RPI HIFI AMP HAT

(A RPI Amplification Module Supports all series RPI like PI ZERO,PI A+,PI B+,PI2,PI3,PI3+)



Version	Updated
2018-08-27	Add Max2play Setting



1、Overview

The RPI HIFI AMP HAT is a high-quality, highly efficient 25W Class-D power amplifier for the Raspberry Pi. you can get a stereo audio system by mount it onto your Raspberry Pi. You only thing you have to do is connect your loudspeakers to our module. It's the ideal choice for small room audio system.

2、Functions and Features

- 1, Up to 25W output power.
- 2, Capable of driving 4 Ohm speakers or higher.
- 3, Fully controllable from the Raspberry Pi.
- 4, Support 44.1kHz and 48kHz sample rates.
- 5, Digital-analog conversion included—no need for external DACs or sound cards.
- 6, Fully digital sound path for optimal audio performance.
- 7, Connects directly to the Raspberry Pi no additional cables needed.
- 8, Wide Power input :12-20v external power input for both RPI and module.

9, HAT size.

- 10, Up to 90% Efficient.
- 11, Integrated EEPROM for automatic configuration (Option).



3. Hardware connection

Connect the RPI HIFI AMP HAT and RPI with 40 pin connector .While installing the module attention to align the first leg of the raspberry pi and RPI HIFI AMP HAT.



6	Right-
5	Right+
4	Left-
3	Left+
2	GND
1	+12V+20V
DC-JACK	DC POWER,12V,5.5MM*2.0MM

Remark:

PIN6,PIN5 is a set of signal;

PIN4, PIN3 is another set of signal

When powing RPI HIFI AMP HAT, Only need to power from DC-Jack Or PIN1&PIN2, not need to power RPI.



4、Software Installation

RPI HIFI AMP HAT compatible with many Raspberry pi music playback system such as: OSMC / Max2Play / RuneAudio / Volumio / Moode / PiCorePlayer / PiMusicBox / OpenELEC/ etc. The user can choose a suitable for their own .

We Provide Volumio/Max2play/Debian Preset System for testing.

4.1 VOLUMIO

https://volumio.org/get-started/



RASPBERRY PI	Volumio Audiophile Music	Player for Raspberry Pi
PC (X86/X64)		
	VERSION: 2.295	
obicib ci	RELEASE DATE: 15-10-2017	
ODROID C2	TOTAL DOWNLOADS: 1481795	
	IMAGE MD5: 60d723f14258c563	37d00e024fc2b2057

For the convenience of fast experience here we can supply Volumio preset software image: volmio-2.2.46-AMP-ok.img, operation as follows:

4.1.1 System IMG

Prepare a capacity of more than4 GB TF card and card reader.

1, Open Win32DiskImager.exe and select volmio-2.2.46-AMP-ok.img $\$ click $\$ write $\$ wait for it complete .

2, Insert the TF card into the Raspberry pi then power on the system.

3, Using your smart phone or tablet or any device with wifi and browser search for wifi hotpots.

4, Connect hotspot Volumio with password *volumio2* (you can change your password once you login) the browser will automatically eject playback software UI which is based on web interface (if you connect the hotspot successfully but for some reason browser can't pop up the playback page automatically, you can using <u>http://192.168.211.1</u> login

Website: www.inno-maker.com Contact: sales@inno-maker.com, support@inno-maker.com



4.1.2 Music player UI Setting



RPI HIFI AMP HAT hardware setting.(Click PLAYBACK OPTIONS,Set as below picture)





Music library select:







4.2 Debian System

- 1) Download debian system, burn into TF card $_{\circ}$
- 2) Find and edit config.txt in FAT partition, enable IIS Audio Card $_{\circ}$

Add the following code as follows in config.txt :

dtoverlay=hifiberry-amp

3) Install the music player:

sudo apt-get install qmmp

After the installation is, we can find the player under the menu bar







4) Set RPI AMP Module(hifiberry-amp) as default system Audio card in Preferences.



4.3 Max2player

1)Download Max2play from below link:

https://www.max2play.com/en/max2play-image/

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Max2	Play Raspberry Pi Image		
for Raspberry Pi 1 Mo	del A/A+/B/B+, Pi 2 Model B, Pi 3 Model B, Pi Ze	ero VIncludes pre-configuration for:	
Max2Play for the Ra	spberry Pi based on the official Raspbian Stretch-Image.	justboom	
After the start, the web inter The sound cards of all listed manufactures ca available WIEI interface (e.g. Pl Zero, PPI3)	race can be reached through the browser at http://max2p he installed with only one click. If booting without connect a hotspot is started (name max2play, password mypasscord	ted network cable and	
smartphc	ne. SSH-Password for user "pi" is "max2play".		
Cownload "Max2Play Raspberr	Pi ALL incl. 3B+ (SD-Card Image based on Raspbi		
m2p_stretch	_rpi_245.img.zip – Downloaded 5156 times – 1 GB	——————————————————————————————————————	
Alterna	ive Legacy-Version based on Debian Jessie.		
		Carecontences	

Choose the image file you want to use .

2) Follow the start guide to setup the system image file to Raspberry pi's TF card.

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Just a few steps to get started '	with your Max2Play	1
1. Download	+	
2. Burn	+	
3. Access	+	
4. Enjoy	+	
Live Demo	Walkthrough Max2Play	4:37

3) Booting your Max2play system and configure your audio card.

a) Connect your RPI to router with Ethernet cable, find out the RPI 's IP address and Login with it.

Here my RPI' s IP address is 192.168.1.109(you should to set it according to your network). b) Choose the Card option as HifiBerry.



c) setup the audio card type as below, then save and reboot the system.



d) Setup your audio player.



Choose your preferred setup and purpose of Max2Play

You may change all settings later, but for the first start, it is suggested to select something. The mediacenter Kodi is available and preinstalled in every setup.

You want a simple way to play music from online rac drives or network storage)	dio streams and local sources (e.g. USB-
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 No synchronized audioplayers No airplay with soundcards like HiFiBerry 	
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f) Enjoy.

Note:

By default Max2play License is not activated . not all functions available!



Active your license.

