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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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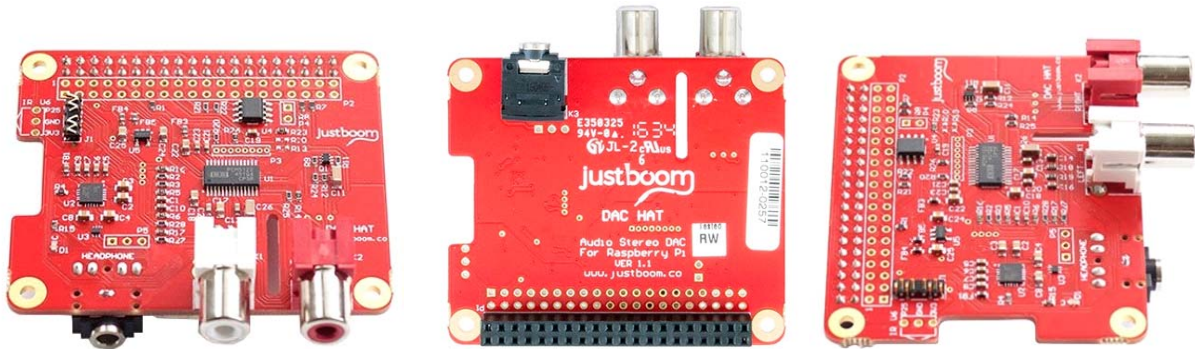
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JustBoom DAC HAT for the Raspberry Pi

SKU 107990034



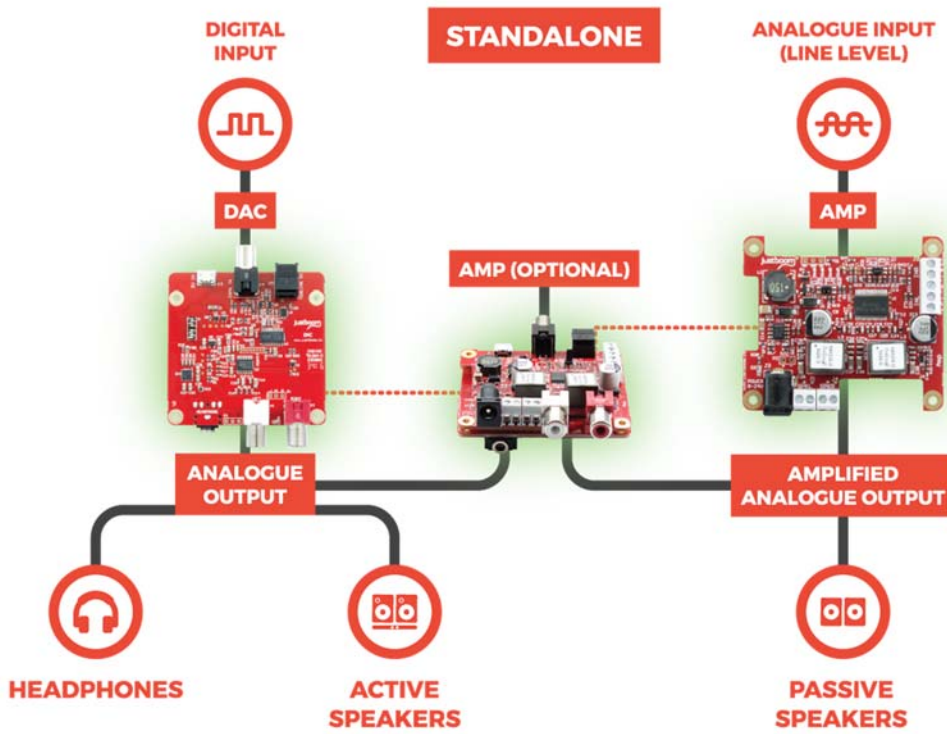
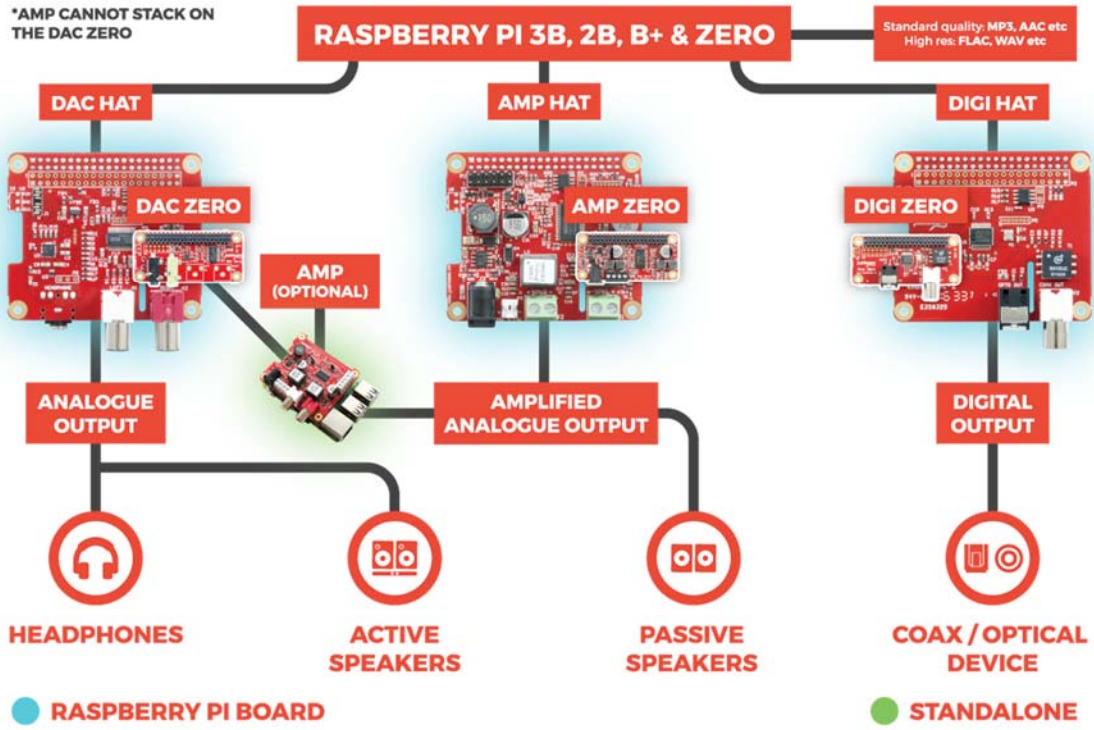
Description


The JustBoom DAC HAT is a plug and play, high resolution, digital-to-analog converter for the Raspberry Pi. Simply stack the plug-and-play add on board (HAT) onto your Raspberry Pi A+, B+, 2B or the new 3B and it will be ready to use immediately.

Just connect your DAC HAT to a set of powered speakers or an audio amplifier and you can be up and running quickly, enjoying flawless high quality audio playback within minutes of unboxing this Raspberry Pi HAT.

Includes a 384kHz/32 bit DAC chip with hardware volume mixing as well as a 138mW headphone amplifier (note that the Raspberry Pi is only capable of a 192kHz/32bit output). Outputs are line level over RCA and headphone amplified over 3.5mm jack cable. The HAT uses the I2S interface for its audio input which reduces CPU load on the Raspberry Pi compared to USB solutions. It is also powered directly from the GPIO header so no extra cables or power supplies are required to connect to the Raspberry Pi. All of the Raspberry Pi GPIO pins are still accessible on the DAC HAT for easy customisation of your project – add additional sensors, buttons, LEDs, rotary encoders or anything your heart desires.

*AMP CANNOT STACK ON THE DAC ZERO






Use cases

Pairing the Raspberry Pi with a high quality audio card provides the perfect solution for a number of exciting projects and applications where the standard on-board audio on the Raspberry Pi simply won't cut it. Here are some possible use cases for the JustBoom DAC HAT and your Raspberry Pi computer:

- Streaming (either from cloud or network storage) high-definition audio player
- Multi-room audio player
- Media centre / set-top box living room entertainment system
- Shop floor / elevator / background music audio player
- High quality audio player with local storage
- Desktop high definition audio player with amplified headphone output
- And many many more....



Features

- Full high quality audio – 384kHz / 32bit
- Includes both a DAC (digital to analog converter) and headphone amplifier
- Line-level RCA and headphone amplified 3.5mm jack outputs
- Plug and play compatibility for ease of use
- Hardware and software volume control from your Raspberry Pi
- No soldering required
- Powered by the Raspberry Pi GPIO header

- Compatible with Raspberry Pi A+,B+, 2B and the new 3B
- Mounting hardware included
- All Raspberry Pi GPIO pins still accessible via 40pin unpopulated extension header
- Our Raspberry Pi DAC is fully HAT compliant
- Full driver support in Raspbian
- Compatible with OSMC / RuneAudio / Volumio / Moode / PiCorePlayer / PiMusicBox / OpenELEC and others
- Fully compatible with the recommended JustBoom Player software.
- Getting started guide for the software.

Technical Information

- Burr-Brown / Texas Instruments PCM5122 DAC chip – 384kHz / 32 bit. Please note that due to Linux driver restrictions, max frequency is limited to 192kHz on the Raspberry Pi
- Texas Instruments TPA6133A2 headphone amplifier – 138mW
- Fully integrated hardware volume mixing via “alsamixer” or any ALSA compatible application
- Integrated EEPROM for automatic Raspberry Pi devicetree driver configuration and fully HAT compatible
- Optional Vishay TSOP4838 IR receiver included (solder yourself if required)
- 112dB signal to noise ratio (SNR) and -93dB total harmonic distortion (THD +N at -1dB) for best-in-class audio
- Advanced ESD protection on both headphone and RCA outputs

- Ultra low noise voltage regulator for the best audio output (LDO 10uVrms)

Setup Guide

We also have **AMP** and **Digi** Raspberry Pi HATs available to purchase.