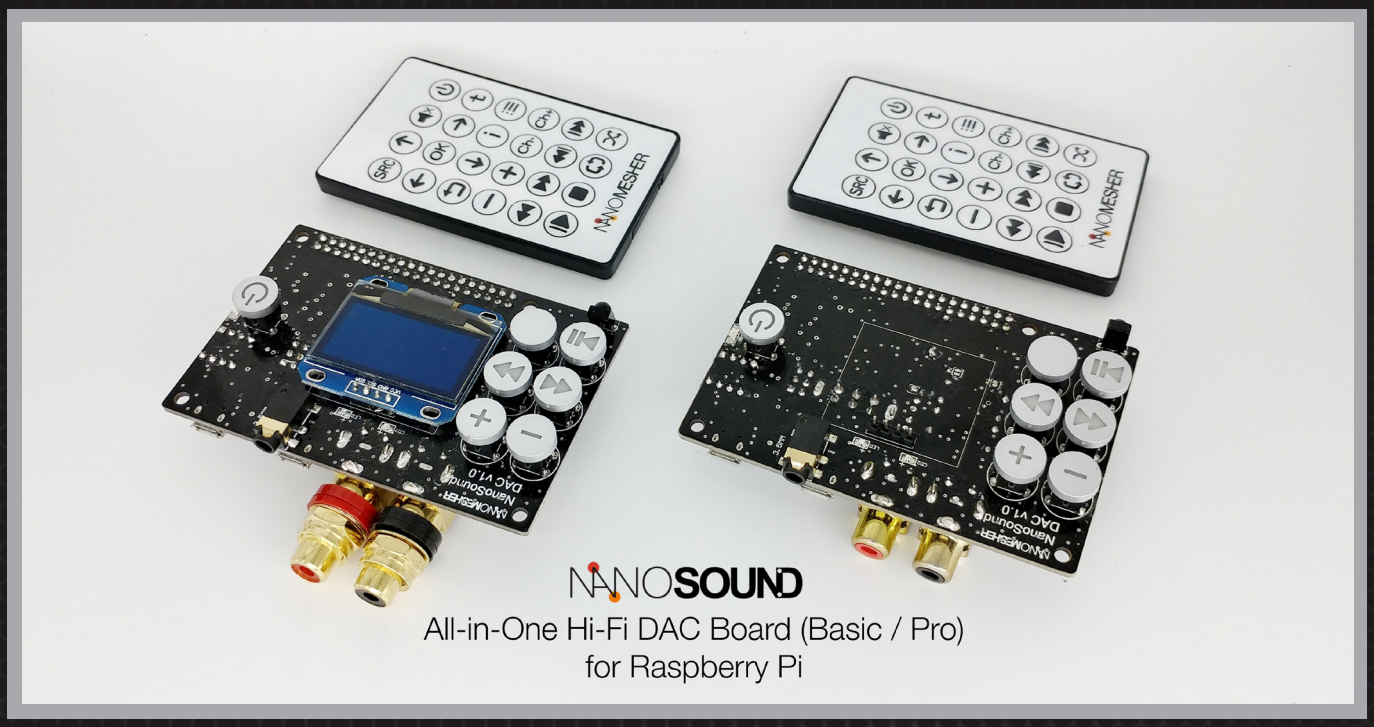


NANOSOUND

NanoSound is a Raspberry Pi audio add-on board for audiophiles. With a 24bit / 112dB Hi-Fi Audio DAC (Digital Analog Converter) onboard, it dramatically improves the audio quality of your Raspberry Pi.

ALL-IN-ONE RASPBERRY PI AUDIO SOLUTION

NanoSound provides essential functionalities including Media Control Buttons, Display (*), Remote control and Pi Power Switch, all in one package. This convenience give you a true consumer electronics experience, while keeping the full customisation and flexibility of Raspberry Pi.

** Pro version only. Display can be purchased separately for Basic version. Simple soldering skill is required.*

EXPERIENCE

Running Volumio and many other player software, with 3D Printed Case and Infrared Remote Control, NanoSound gives you the best audio performance and experience you would expected from any great audio player.

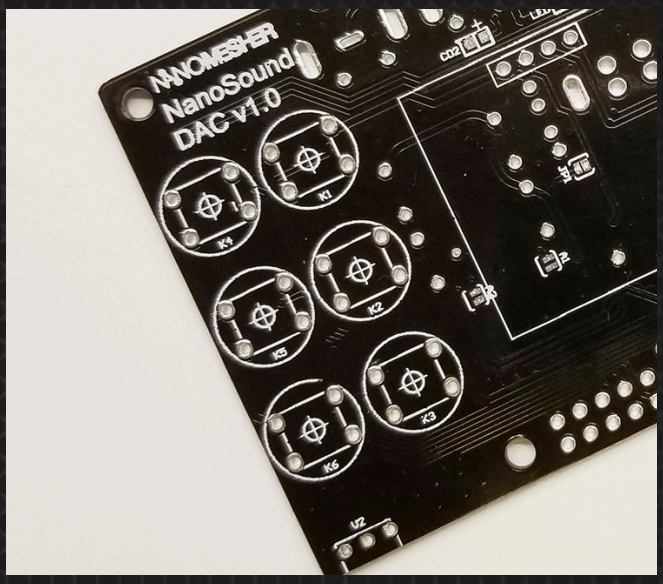
VOLUMIO
THE AUDIOPHILE MUSIC PLAYER

NANOMESHER

NANOSOUND

SPECIFICATION

- Texas Instruments PCM5122 DAC
  - 192kHz Sampling Rate / 24bit Resolution Burr-Brown DAC for best sound quality
  - Hardware volume control for best quality using “alsamixer”
- Texas Instruments TPS7A4700 Ultra Low Noise Voltage Regulator
- Switchable Power Option
  - Power from a single microUSB port or independently
- Raspberry Pi Power switch
  - Turn on and Gracefully shut down Raspberry Pi System
- 6 GPIO buttons for Media Control
- Infrared Receiver and Remote Control
  - LIRC compatible
- 1.3” OLED display with multi-language support.
  - Resolution: 128 x 96



CUSTOMIZATION

NanoSound is fully customizable and programmable! we take full advantage of the Raspberry Pi’s open architecture.

- The 6 buttons are simple GPIO buttons. Python source code will be provided to read button events.
- The IR receiver and control is LIRC compatible. Lircd.conf will be provided to read button input.
- The 1.3” OLED display is using i2c. The python display driver code is open sourced.
- The onboard on/off switch uses the same design and software as our Nanomesher Hackable Raspberry Pi Power Switch. It has an attiny85 onboard and is open sourced.