

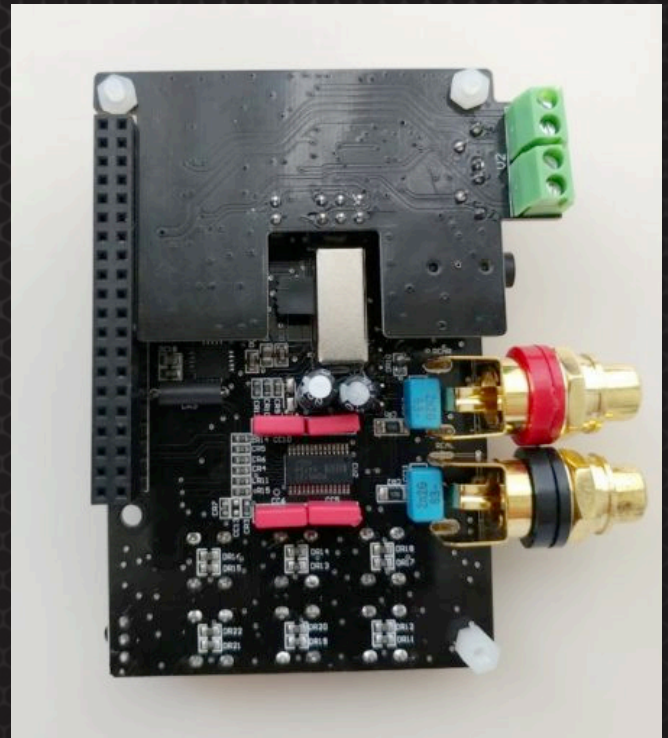
AMP^2  
NANOSOUND

## NANOSOUND AMP^2

Following the success of NanoSound DAC, Nanomesh continues to develop our Raspberry Pi Audio range. Here we present: **NanoSound AMP^2 - A Very Efficient Headphone + Speaker Amp Add on for your NanoSound DAC.**  
**WHAT IS NANOOSUND AMP^2**

The new amp add-on board for NanoSound DAC, NanoSound Amp^2 (Pronounced as "Amp Square"), include both a headphone amplifier as well as a very efficient 5W speaker amplifier. It runs very cool due to its up to 90% efficiency allowing the whole unit (Raspberry Pi + NanoSound DAC + NanoSound MiniAmps) to be powered by one single microUSB cable (or individually if you choose to). It's surprisingly loud and is enough to power a large room or a small lounge as demonstrated.

<https://youtu.be/sE0zlzutEdA>



*NanoSound Amp^2 Fitted on NanoSound DAC*

# NANOSOUND AMP^2

## SPECIFICATION

- Switch On/Off via onboard buttons on the NanoSound DAC
- Onboard relay rated up to 2A
- Powered by single microusb or individually
- 4 layered PCB designed to eliminate internal interference from Pi

### Headphone Amp

- Input Voltage: 5V
- Output Power: 24mW @20 $\Omega$ , 22mw @32 $\Omega$
- Signal-To-Noise Ratio (SNR): 100db @20mW
- Total Harmonic Distortion + Noise (THD+N): 0.01% @25mW

### Speaker Amp

- Input Voltage: 5V
- Output Power: 5W @2 $\Omega$ , 3W @4 $\Omega$
- Efficiency: 90% @8 $\Omega$ , 85% @4 $\Omega$ , 80% @2 $\Omega$
- Signal-To-Noise Ratio (SNR): 90db
- Total Harmonic Distortion + Noise (THD+N): 0.15%

