

AMP^2
NANOSOUND

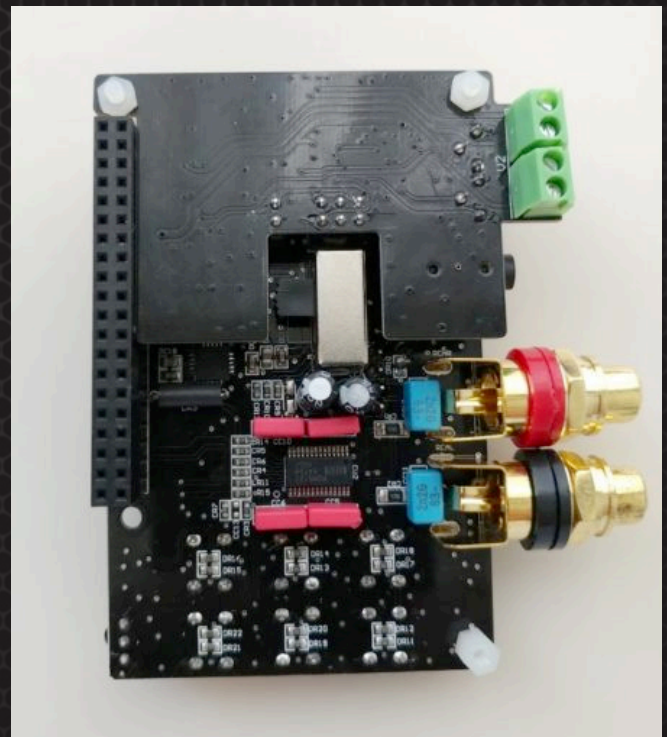
NANOSOUND AMP^2

Following the success of NanoSound DAC, Nanomeshier 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 NANOSOUND 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.

[See Demo](#)



NanoSound Amp^2 Fitted on NanoSound DAC



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NANOSOUND AMP^2

SPECIFICATION

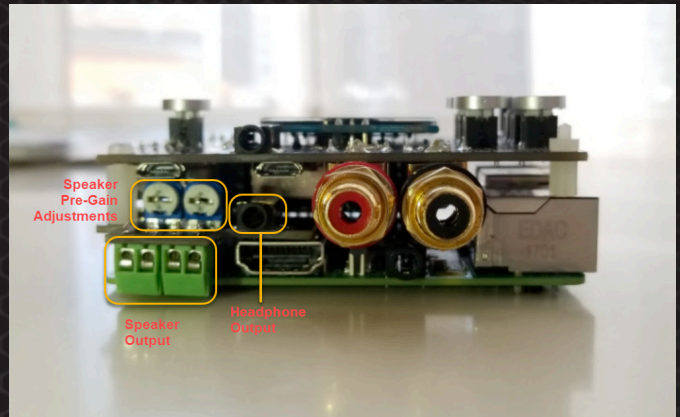
- Switch On/Off via onboard buttons on the NanoSound DAC
- Onboard relay rated up to 2A
- Powered by single microusb or individually
- 4 layered PCB designed to eliminate internal interference from Pi

Headphone Amp

- Output Power: 24mW @20Ω, 22mw @32Ω
- Signal-To-Noise Ratio (SNR): 100db @20mW
- Total Harmonic Distortion + Noise (THD+N): 0.01% @25mW

Speaker Amp

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



Amp^2 can directly power speakers with 15-30W power rating