Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!

Contact us

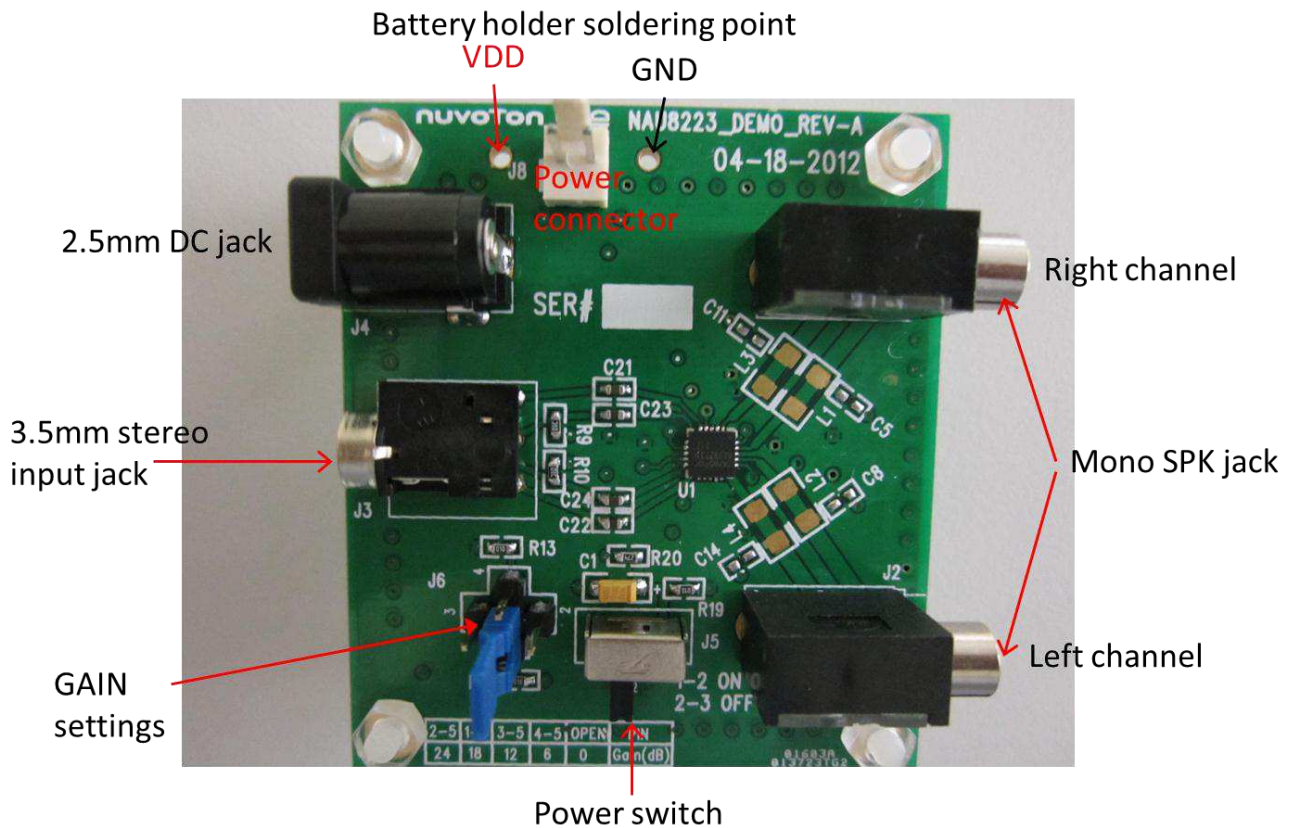# 2.8W/Ch Stereo Class-D Audio Amplifier

NAU8223-DEMO-RevA
User Manual

DESCRIPTION:

The NAU8223 is a stereo high efficiency class-D audio amplifier, which is capable of driving a 4Ω load with up to 2.8W output power.

This demo board consists of the following parts: The input is configured by a 3.5mm stereo phone jack. Outputs are composed of dual mono speaker jack, and the power supply can be selected in one of the three ways: AAA batteries, power connector and 2.5mm DC jack. Besides, there is a gain pin which can be tie to one of four gain settings and a switch.to control on/off.
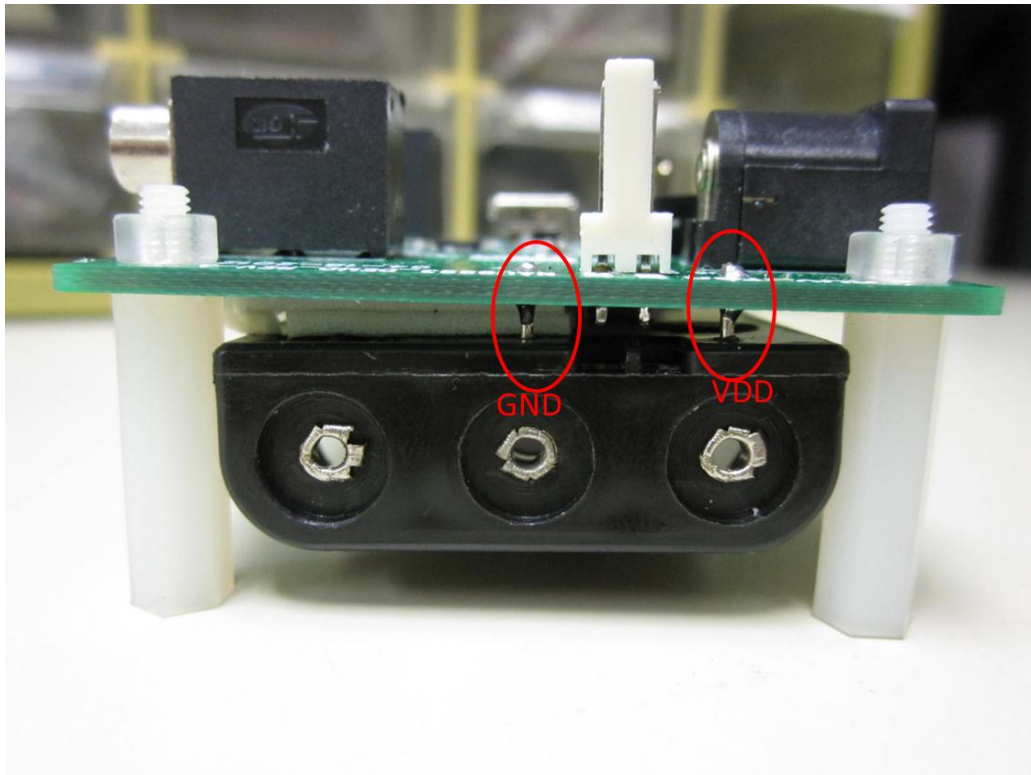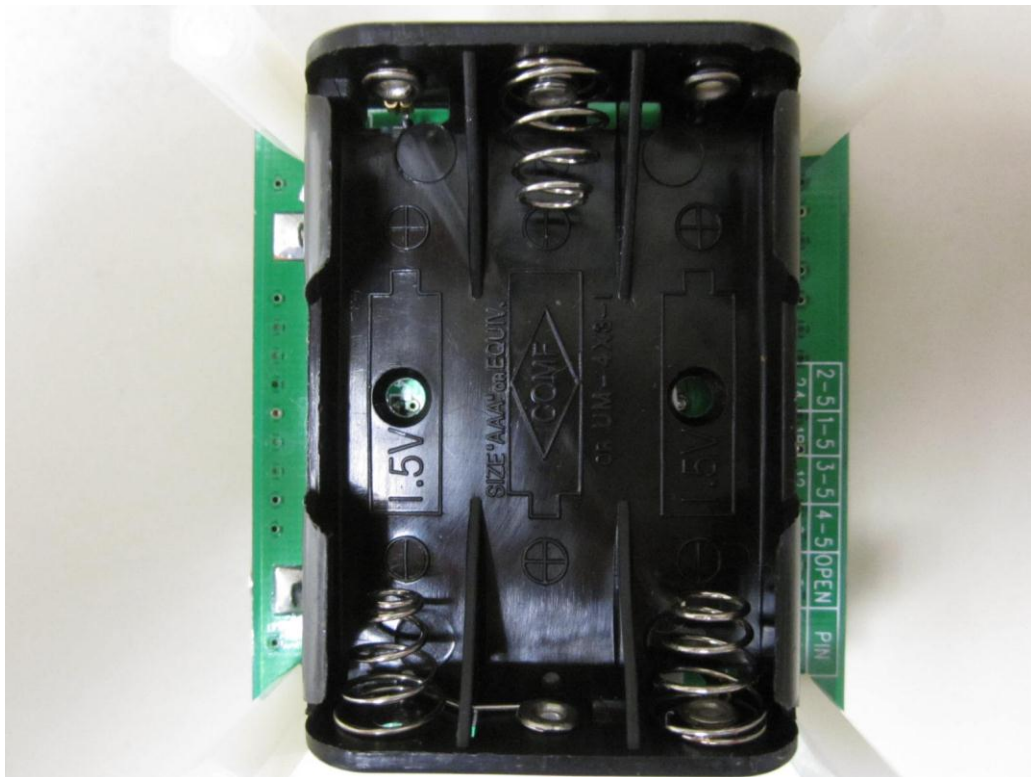
DEMO BOARD OVERVIEW

POWER CONNECTIONS:

There are three ways to choose:
1) Apply 2.5 to 5.5V voltage to Power connector J8.
2) Plug 2.5mm adapter (Vout<5.5V) to J4 jack.
3) Weld a battery holder under the bottom of NAU8223 demo board. The soldering points are on both sides of J8. (Please refer to below figures)

Side view

Bottom view:

INPUT CONNECTIONS:

A 3.5mm stereo plug is recommended to put in J3. You can play general audio source like the music from PC.

OUTPUT CONNECTIONS:

4Ω or 8Ω mono speakers are recommended to plug in J1 (right channel) and J2 (left channel).
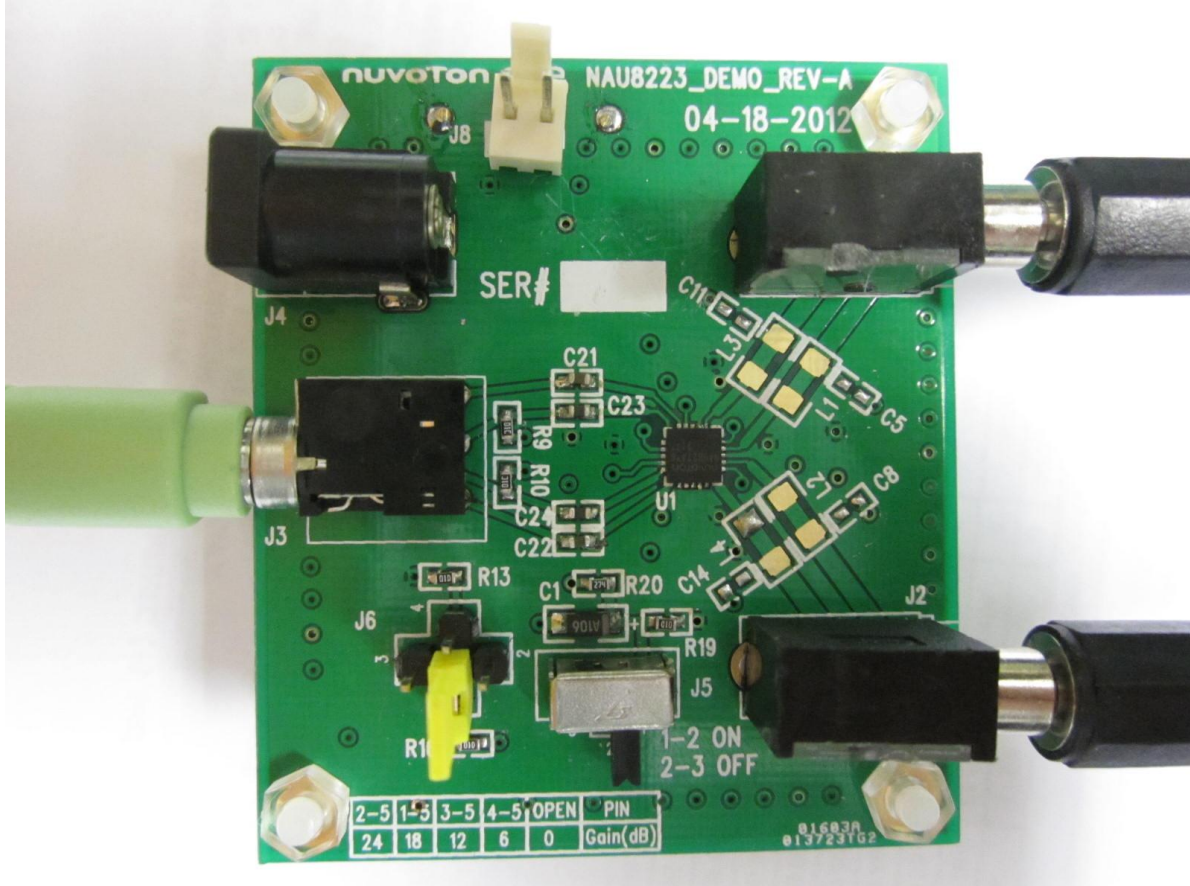
GAIN SETTINGS

You are allowed to install a jumper on J6 to set the gain of NAU8223:
Without jumpers: 0 dB
5-4: (Center-Top pin)   6 dB
5-3: (Center-Left pin)   12 dB
5-1: (Center-Bottom pin) 18 dB
5-2: (Center-Right pin)   24 dB

POWER SWITCH

Switch J5 to control normal/shutdown mode.

A general setting is like below picture (use AAA battery holder under the bottom of demo board) :

SCHEMATIC: