FC CE

PIANO 2.1 HI-FI DAC
SUBWOOFER OUT
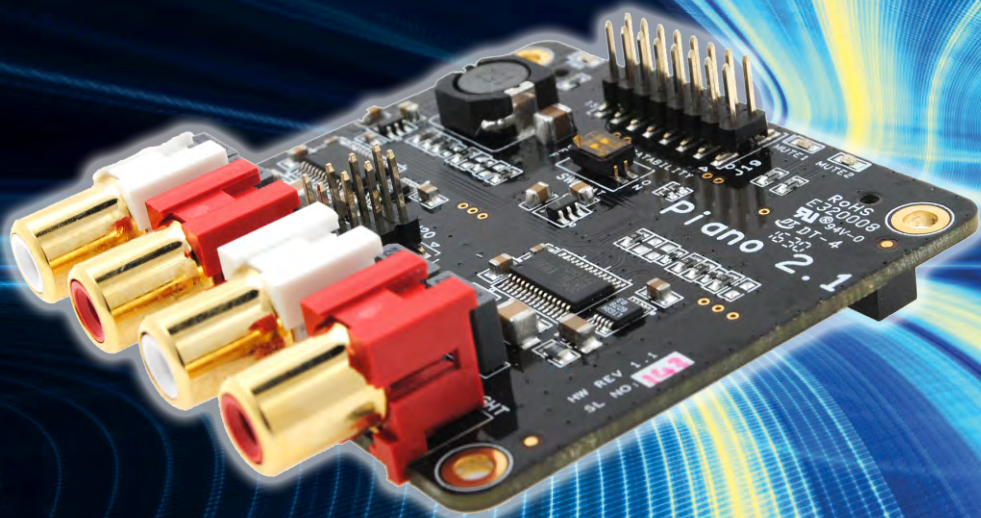
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PIANO HI-FI DAC (VERSION 2.1)

We are using 2 DAC ics PCM5142 with integrated DSP. The PurePath software from TI is available for download (registration required) and can be used to create specific filters and other audio functions.

The board will come pre-programed as a 2.1 output (but you can create your own custom design and load it the board and can access the xover frequency directly from linux (we made a small app).

Hardware wise, we have split the digital and analog side with LDOs and we feed the analog side using an extremely capable (low noise ultrahigh psrr) LT3042. Basically each board has 4 LDO (2 for each DAC ic) (note that digital side uses cheaper LDOs).

Of course, on the analog side we used only thin film resistors and poly caps in audiopath.
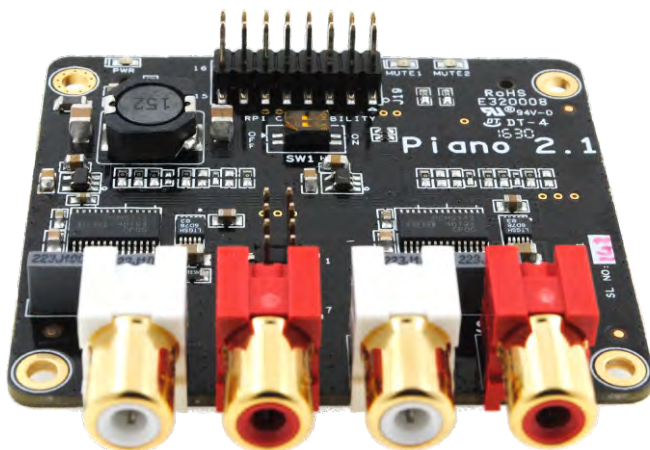
Key Features

- Dedicated Two no's of 384 kHz/32bit high-quality DAC PCM5142 for best sound quality

- Available with different output connectors: 4 x RCA

- DAC SNR is 112dB

- DAC THD+N @ - 1dBFS are –93dB

- Full Scale Output of DAC is 2.1Vrms

- Dynamic Range of DAC is 112dB

- Sampling Frequency ranges from 8 kHz to 384 kHz

- Ultra-low-noise voltage regulators for optimal audio performance

- Integrated EEPROM for automatic configuration (with write-protection)

Technical Specifications

- Operating Temperature Range is -25C to 85C

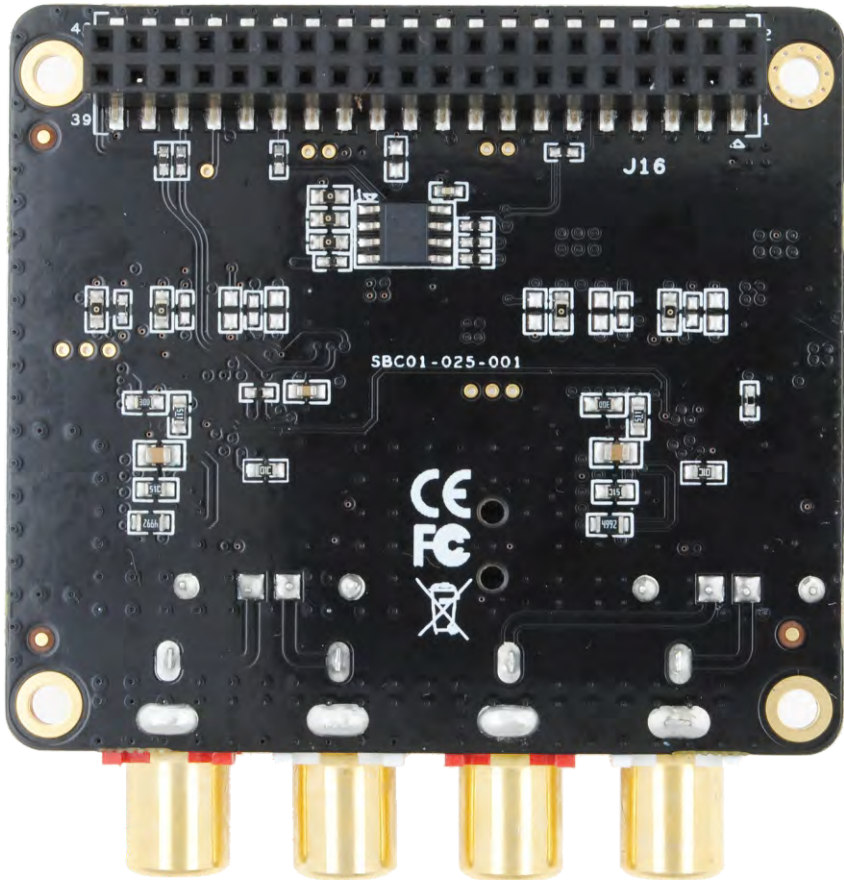- The Piano 2.1 board size: LWH = 68.7mm* 65 mm*22.2mm

Top View
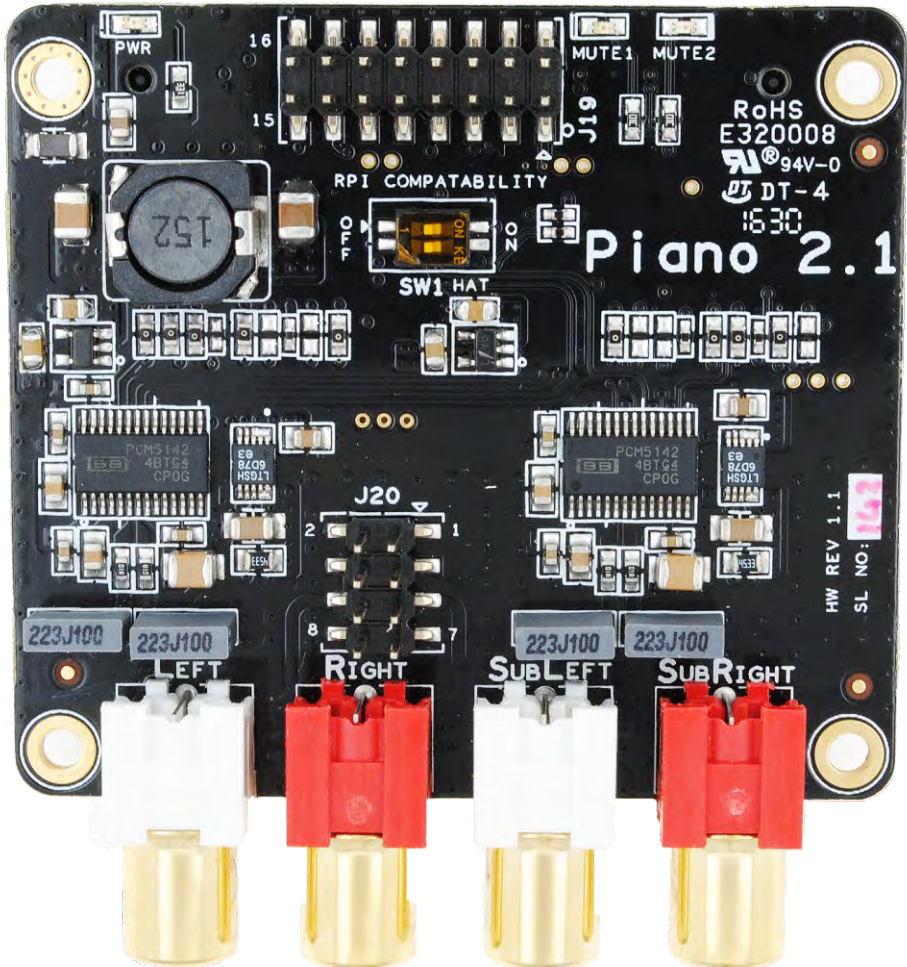
Bottom View

Flow of Purepath in Piano 2.1

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