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!
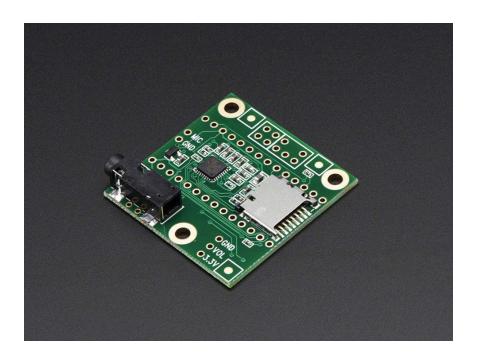

Contact us

Audio Adapter Board for Teensy 3.0 - 3.2, 3.5 and 3.6

PRODUCT ID: 1780

- # Description

This audio adapter lets you easily add high quality 16 bit, 44.1 kHz sample rate (CD quality) audio to your projects with a Teensy 3.2, 3.5 or 3.6. It supports stereo headphone and stereo line-level output, and also stereo line-level input or mono microphone input.

The audio chip connects to Teensy v3 using 7 signals. The I2C pins SDA and SCL are used to control the chip and adjust parameters. Audio data uses I2S signals, TX (to headphones and/or line out) and RX (from line in or mic), and 3 clocks, LRCLK (44.1 kHz), BCLK (1.41 MHz) and MCLK (11.29 MHz). All 3 clocks are created by Teensy 3.1. The SGTL5000 chip operates in "slave mode", where all its clock pins are inputs.

As of February 23rd, 2015 we are shipping an updated version with a few minor changes.

This product does NOT include a Teensy, it's just the audio adapter!

• Technical Details

Dimensions:

- o 35mm x 37mm x 2mm / 1.4" x 1.5" x .08"
- o Height with Jack: 6.7mm
- o Weight: 4.9g

Revision History:

- o As of February 23rd, 2015 we are shipping an updated version with a few minor changes:
    - ▪ 1. Pullup resistors are added for the SD card and optional SPI flash chip (the empty 8-pin location on the bottom side).
    - ▪ 2. The values of some capacitors are increased, to allow for better signals at sub-audible frequencies.
    - ▪ 3. A few locations are added to cut and join traces, to reconfigure the board to non-standard wiring.
- o The new version is 100% compatible with the software and exactly the same form factor!