

Audio Dongle

(CT7601SR+CS42L42) Audio dongle

UAD-700

The UAD-700 used USB TYPE-C connector, support USB2.0. Main control chip the CT7601 is a single chip audio USB 2.0/1.1 playback and record bridge. The CS42L42 is a low-power audio codec with integrated MIPI SoundWire interface or I2C/I2S/TDM interfaces designed for portable applications. It provides a high-dynamic range, stereo DAC for audio playback and a mono high-dynamic-range ADC for audio capture.

The CS42L42 features high-performance up to 24-bit audio for ADC and DAC audio playback and capture functions and for the S/PDIF transmitter. The CS42L42 architecture includes bypassable SRCs and a bypassable, three-band, 32-bit parametric equalizer that allows processing of digital audio data.

A digital mixer is used to mix the ADC or serial ports to the DACs. There is independent attenuation on each mixer input.

The processing along the output paths from the ADC or serial port to the two stereo DACs includes volume adjustment and mute control.

Features

- Main Chip: CT601SR + CS42L42
- Interface: USB 2.0
- Sample Rate: 8 to 192 kHz
- Flash size: 512Kb
- PCB Stack: 6 layers
- Operating Voltage: DC 5V +/-10%
- Power output: 2 x 35 mW into 30Ω
- Mic input: Mono input with 114-dB dynamic range
- Dimension: 13 x 8.5 x 2.4 mm

Outline

