SSS1700 Headset/ Line-in Controller

Overview

SSS1700 is 3S highly integrated single chip USB audio controller with on chip oscillator to save the external 12MHz crystal component for headset application. SSS1700 support 96 KHz 24 bit sampling rate with external audio codec(24bit/96KHz I2S In&Out) and built-in stereo 16/24 bits ADC, stereo 16/24 bits DAC, capless earphone driver, five-band hardware EQ, audio PLL, USB clock oscillator, USB FS controller and USB PHY. External 24C02~24C16 EEPROM connection provides flexibility for USB VID/PID/product string, default gain settings, and other customized demands. SSS1700 provides a minimum BOM solution for featured USB audio solutions in Windows / MAC / Android OS.
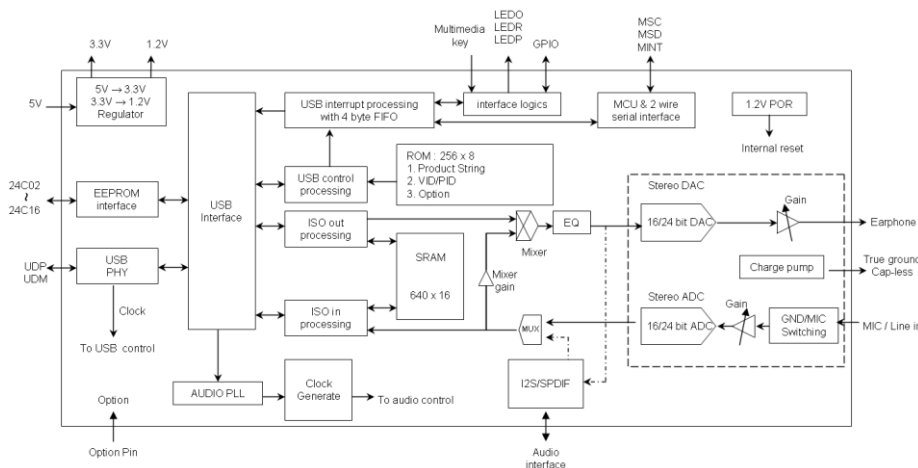
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Features

- Compliant with USB specification v2.0 full speed operation
- Compliant with USB audio device class specification v1.0
- Support 44.1KHz/48KHz/96KHz、16bit/24bit sampling rate
- Embedded I2S interface (master /slave mode) for 16/24 bit CODEC DAC/ADC
- Embedded SPDIF In&Out interface for 16/24 bit CODEC DAC/ADC
- Volume up, volume down, playback mute, record mute, next track, previous track, stop and play/pause pin for direct user control
- GPIO and MCU interface register read/write via HID
- Support CTIA/OMTP auto switch for TRRS Audio Jack
- Class AB Capless Earphone Driver
- Win XP, Win 7, Win 10, Win 11, Mac OS, Linux OS and Android OS
- LQFP48, QFN48, QFN36

Highlights

- Stereo 16/24 bit DAC
- Stereo 16/24 bit ADC
- Class AB Capless Earphone Driver
- Microphone input
- USB Audio Class v1.0
- External EEPROM I/F
- USB HID:
  - Multimedia Key
- Peripherals
  - Two-wire serial bus
- Win XP / Win7/ Win 10/ Win 11/ Mac / Linux/ Android ready
- Single 5V power supply
- USB Headset Controller
- LQFP 48 / QFN 48 / QFN 36

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Solid State System

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