

USB controller with external Amplifier and Recording function

Features

- Compliant with USB Specification v1.1, and USB 2.0 full speed
- Support I²S input and I²S output interface of master mode
Sampling frequencies(Fs) : 48kHz
- Support recording function
- Supports Win Me//2000/XP and MacOS
- True plug-and-play application, no driver is required for basic USB speaker application
- Support volume/mute control with external button
- Built-in 5V to 3.3V regulator for internal device

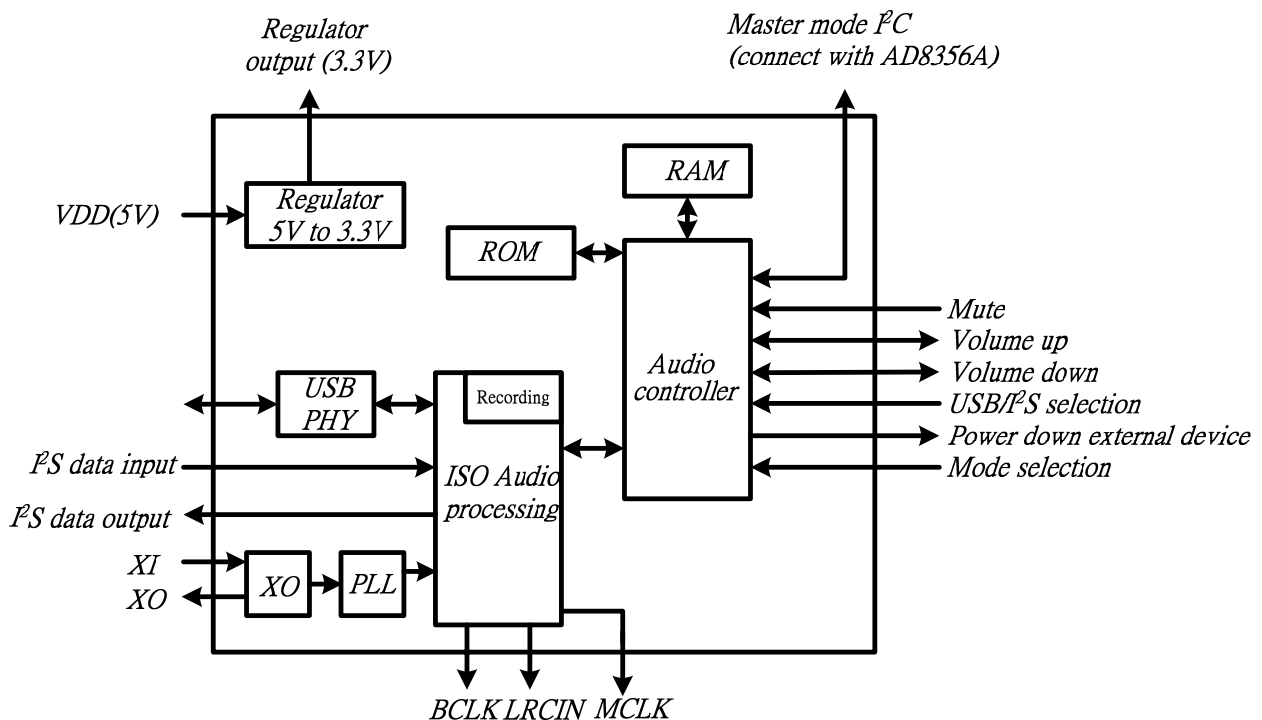
operation

- 12 MHz Crystal Input
- 32-pin LQFP(Pb free)

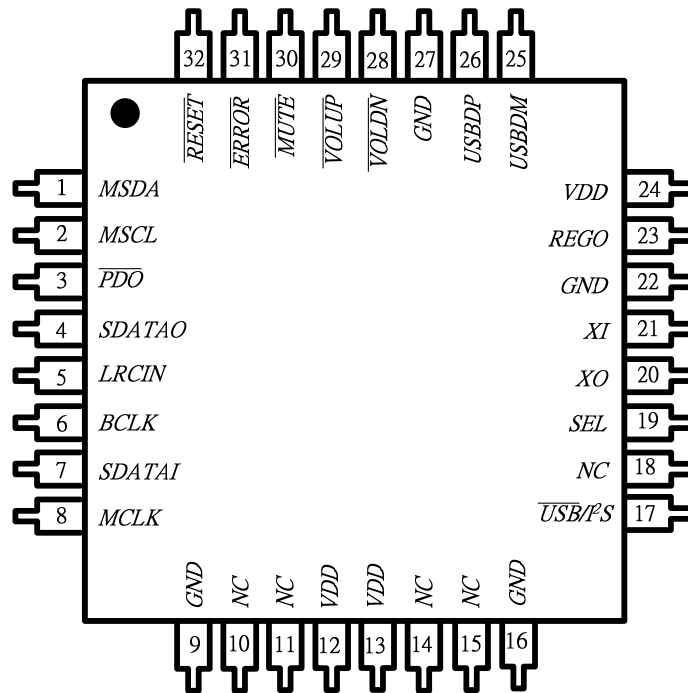
Description

AD62551A is a USB audio controller with I²S interface and supports recording function. The device also has an I²S input port and I²S output port. The I²S output port allows other high performance audio device (i.e. AD8356A/AD8256A) to be controlled by AD62551A.

Functional Block Diagram



Pin Assignment



Pin Description

Pin	Name	Type	Description	Characteristics
1	MSDA	I/O	I ² C's SDA of Master mode	Schmitt trigger TTL input buffer
2	MSCL	O	I ² C's SCL of master mode	
3	PDO	O	Power-down output (Note1)	
4	SDATAO	O	Serial audio output (Note1)	
5	LRCIN	O	L/R clock output(Fs) (Note1)	
6	BCLK	O	BCLK output(64xFs) (Note1)	
7	SDATAI	I	Serial audio data input	Schmitt trigger TTL input buffer
8	MCLK	O	Master clock(256xFs)	
9	GND	P	Ground	
10	NC	NC	No connection	
11	NC	NC	No connection	
12	VDD	P	5V supply voltage	