



Arduino VS1053 MP3 Module

1. Introduction of main control chip

VS1053b is monolithic Ogg Vorbis/MP3 / AAC/WMA/MIDI audio decoder, and IMA ADPCM encoder and user load Ogg Vorbis encoder. It contains a high performance, and patented low-power DSP processor core VS_DSP4 for user applications, data storage, and any curing decoder running together 16 KiB instruction RAM, RAM, and 0.5 KiB more data serial control and the input data interface, 8 available at most general I/O pins, a UART, variable sampling rate and a high quality stereo ADC and stereo DAC, and follow a headphone amplifier and a common voltage buffer.

2. The module features

- 1, Using the most powerful VS1053 chip of the VS10xx series , can play music of various formats, also supports OGG real-time encoding voice recording
- 2, SPI interface, welds pins for all control signals.
- 3 One Headset port and one sound input port.
- 4 One microphone used for voice recording
- 5 One line_in input interface
- 6, Power indicator
- 7, On board 3.3V and 2.5V LDO chip AMS-1117, the max current is 800MA
- 8, + 5 v single power supply, capacitor filter
- 9, 12.288 Mhz crystal vibration

3. Machine drawing

