VS1000 USB Recorder Application

ver. 1.0 / November 2008
USB Recorder... and more!

- USB Speakers + Microphone
- USB SD Card Reader/Writer
- **Record audio from USB** or mic
- **Play audio** from SD card with no PC
Overview

- **Low cost** because of high integration
- Uses SD or **SDHC** card
- **Lossless** recording to SD card
- **3 recording modes:**
  - **USB** Hi-Fi quality 44.1 kHz stereo
  - **USB** Long Play quality 22 kHz mono
  - **Microphone** 11 kHz mono
- Plays WAV or Ogg files from the SD card
- Simultaneous USB Audio and USB mass storage functionality
Applications

- USB speakers for PC
- Web radio recording with PC
- Audio backup copying
- USB headset
- Portable music player
  - Modern version of “tape recorder”
- Voice memo recorder
Features

- CD quality record / playback
- Long recording buffer
  - CD quality recording even with large MLC based SD cards
- Supports MMC, SD, SDHC cards
- Supports Nand Flashes with integrated SD controller
- Integrated headphone amplifier
- Voice quality microphone preamplifier and ADC
- Can be powered for example with 4 NiMH cell batteries when not connected to PC
Options

* **Microphone not needed?**
  > Op-amp can be removed

* **Recording not needed?**
  > Nand Flash (SLC or MLC) can then be used instead of SD card
  > SPI flash not needed

* **Speakers not needed?**
  > If only headphones are used, then the speaker amplifier can be removed
VS1000 Chip Features

- High Quality sigma-delta D/A converter
- Integrated headphone amplifier
- Low power design
- Integrated voltage regulators
- Good signal-to-noise ratio
- USB Port
- License-free Ogg Vorbis decoding
- EarSpeaker spatial sound enhancement
Do you have customization requirements?

Our support will help you

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