

VS1000 Audio Guide

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Features

- VS1000 Audio Guide is a simple low-cost “take away” high-quality audio player for tourist attractions.
- Five capacitive touch buttons are integrated on the PCB (play/pause, prev, next, vol, language).
- The unit is powered when the headphone plug is inserted and the unit consumes no power after headphone plug is detached.
- High-performance Ogg Vorbis audio codec provides great balance between play time and audio quality.
- Firmware and audio content can be customized and they can be preloaded or dynamically updated in 3-12 mins (depending on size) by using a dedicated programmer.

Features

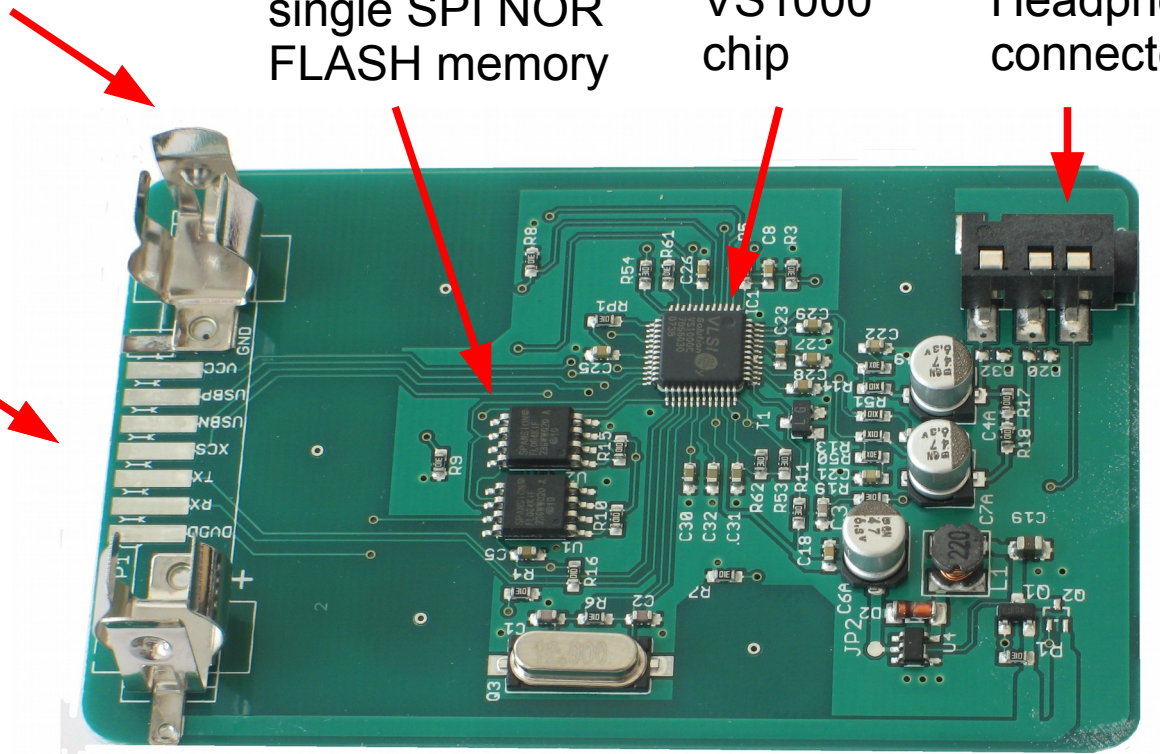
Battery clips
are on the PCB

Supports dual or
single SPI NOR
FLASH memory

VS1000
chip

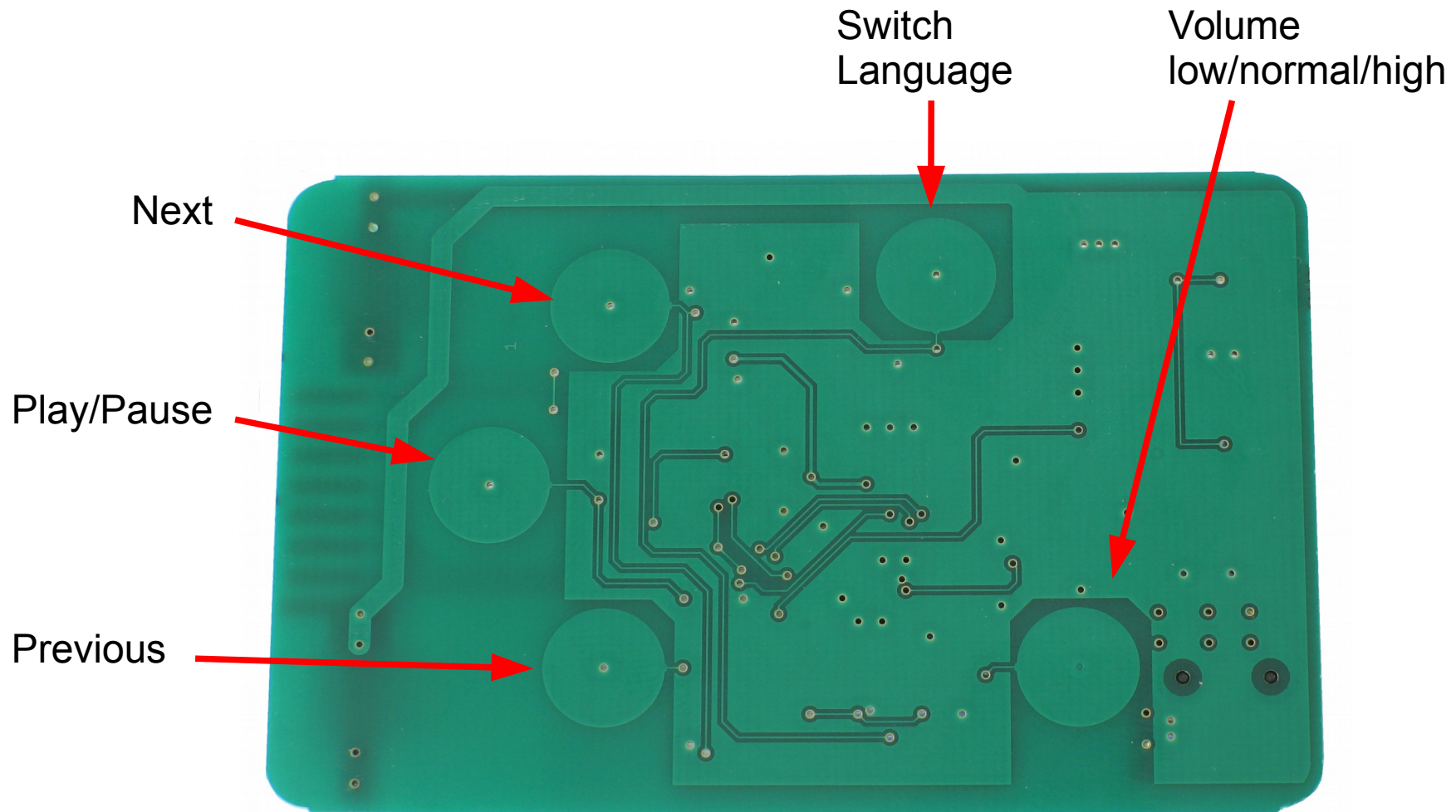
Headphone
connector

Data bus for
external
programmer



cm

Features



- Touch keys can be covered by paper or plastic sticker, sensitivity will be normalized automatically.

Specifications

- Hi-Fi quality sound, SNR > 90 dB
- Average bit rate can be adjusted from 8kbits/s to about 300kbits/s.
- Sample rate can be from 8kHz to 44.1kHz.
- Supports both stereo and mono files.
- Total memory size can be upto 16 Mbytes, which can be adjusted by assembling different SPI NOR FLASH chips without modifications to PCB.
- Total continuous playing time is over eight hours from a single AAA battery.
- Negligible power consumption in power off.

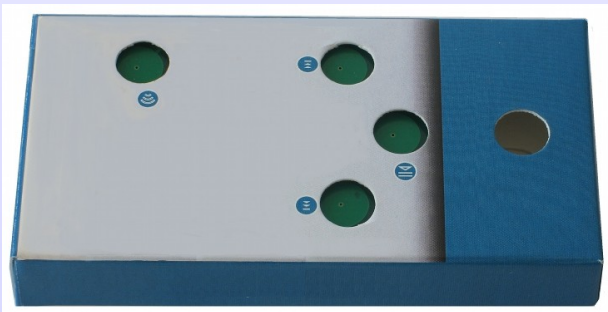
Language selection

- One suffix per language, the number of languages can be 1-8.
- The number of tracks can be different in each language.
- Pressing the “Language” button switches to the next language (by default starting from the first file).

Casing Alternatives

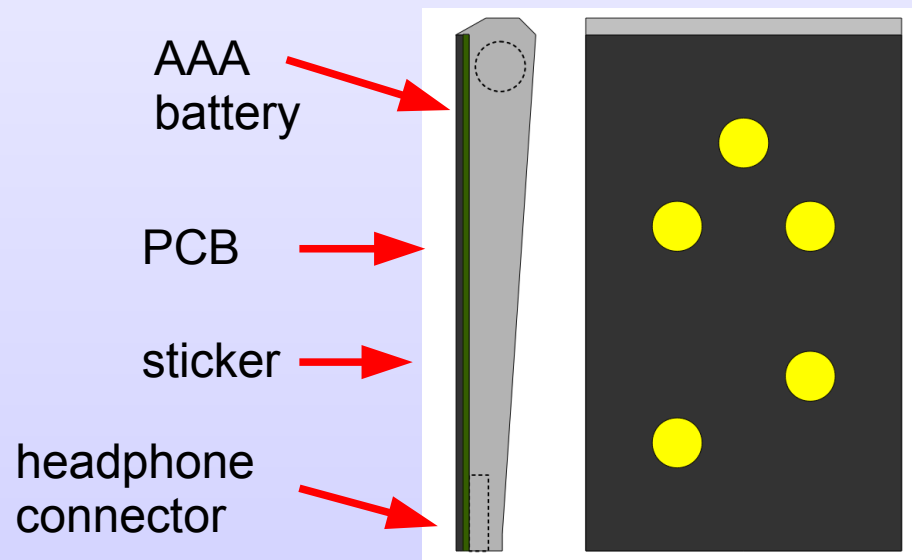
Paper

- Easy to modify in low volumes
- Different finish options

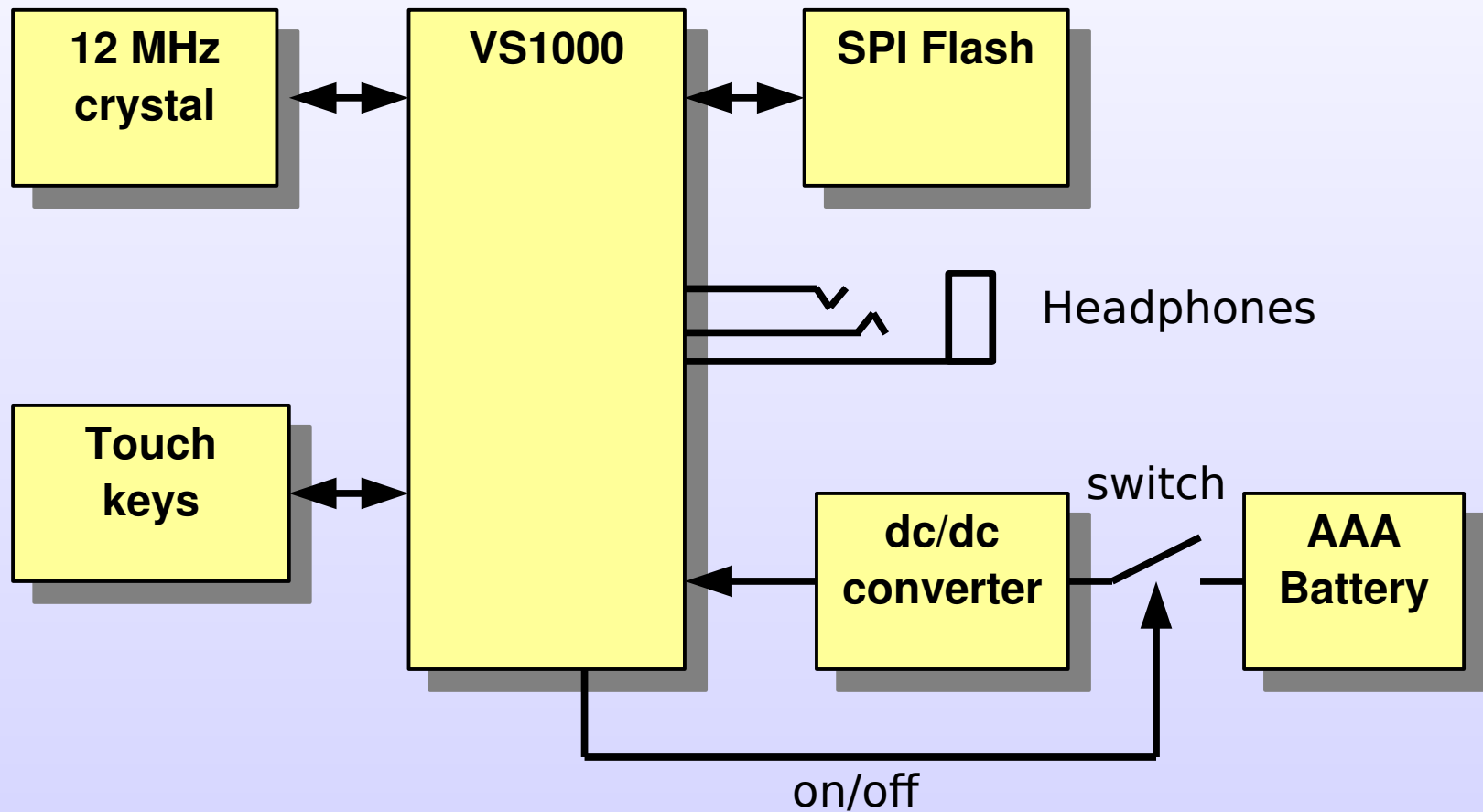


Plastic

- PCB with a sticker is the top cover
- Easy to customize with sticker
- Low unit cost in high volumes



Block Diagram



capacitive touch pad

