VS1003 SD Card Mini Player

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Overview

- Plays MP3/WMA/SP-midi/WAV files from SD card (FAT)
- 3 buttons, one LED, no display
- Customization by using EEPROM for boot
- MMC, SD, SDHC cards supported
- Index of played song restored in power-on
- Excellent audio quality (SNR 90 dB)
- Play time 5-10 hours (single AAA, 800 mAh)
- Low BOM cost
Applications

- Gadget MP3/WMA player
- Audio feature
- SD card reader
Block Diagram

- Buttons
- XTAL
- VS1003
- dc/dc 1.0V to 2.8V
- Regu. *) 2.8V to 2.5V
- Boot EEPROM
- Analog output
- *) optional
Evaluation Board

- VS1003
- 12.288 MHz crystal
- buttons
- 1.0V to 2.8V dc/dc converter
- 3.5mm stereo plug
- EEPROM
- Digital
Default 3-button interface

<table>
<thead>
<tr>
<th>PRESS</th>
<th>VERY LONG</th>
<th>LONG</th>
<th>SHORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1</td>
<td>volume down</td>
<td>volume down</td>
<td>previous</td>
</tr>
<tr>
<td>SW2</td>
<td><strong>power off</strong></td>
<td><strong>power on</strong></td>
<td>toggles pause/play</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>toggles random play if paused</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>toggles loudness if playing</td>
</tr>
<tr>
<td>SW3</td>
<td>volume up</td>
<td>volume up</td>
<td>next</td>
</tr>
</tbody>
</table>

- Default player has 3 buttons
- Number of buttons can be easily increased up to 32
Modification for smallest size

VS1003

Buttons

XTAL

dc/dc
1.0V to 2.8V

Regu. *)
2.8V to 2.5V

Boot EEPROM

Analog output

Battery
Modification for smallest size

VS1003

Buttons

XTAL

Analog output

Boot EEPROM
Modification for smallest size

- Smart card size player (3 mm thin)
- Dice size player (2 x 2 x 2 cm)
- Product can be disposable by using special battery cell technology
Summary of VS1003 SD Card Mini Player

- It is the simplest solution that can play MP3 and WMA compressed audio from SD card
- It has low BOM
- It has excellent audio quality
- It can be customized via boot EEPROM
- It comes with professional technical support
- VS1003 has mp3 license included
- The world's smallest SD card player can be build based on Mini Player concept
Do you have customization requirements?

Our support will help you

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