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MOD-MP3 rev 1.00/07-2006



MOD-MP3 is low power MP3 player module based on VS1002 hardware decoder for MPEG 1 & 2 audio layer 3 (ISO 11172-3), MP3+V, WAV and PCM files ; supports ADPCM encoding and decoding ; supports VBR (variable bit rate) for MP3; Supports streaming

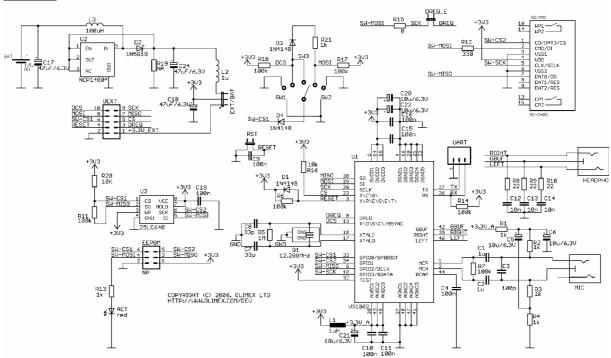
MOD-MP3 can work as stand alone MP3 player with single cell 1.5V battery and on board SD/MMC card, but can be connected as slave device to host microcontroller.

The module features are:

- VS1002 hardware decoder for MPEG 1 & 2 audio layer 3
- plays MP3, WAV, PCM files
- for MP3 supports variable bit rate and streaming
- very low power, works from single **1.5V battery cell**
- Stereo Audio output for headphones
- Stereo Audio input for microphone, ADPCM encoding and decoding
- On board UEXT connector for connection to host microcontroller in slave mode it will play the bit stream from the host microcontroller which opens possibilities for easy adding voice to industrial applications, toys, robots etc.
- On board (on back side) SD/MMC card connector
- Can work as MP3 player without need for host microcontroller in stand-alone mode booting the VS1002 firmware from on-board EEPROM, in this mode the on board 3 action lever switch can perform Pause/Play, Forward and Reverse action
- PCB: FR-4, 1.5 mm (0,062"), red soldermask, white silkscreen component print
- Dimensions: 57x45 mm (2.2x1.8")

Sample code for driving MOD-MP3 in slave mode with LPC-P2148 board connected to UEXT is available on our web page www.olimex.com/dev

Schematic:



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