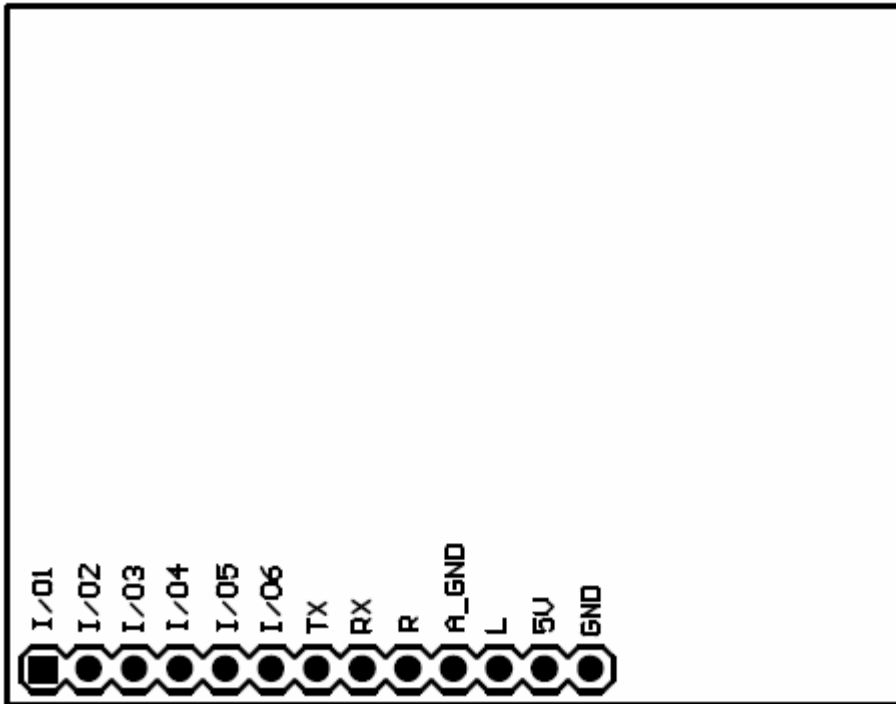

SD Card MP3 Player Module w/ 6 Output Control

Features:

- Decodes MP3 files
- Supports bitrate from 32kbps to 144kbps
- High quality on-chip stereo DAC
- Drives earphone directly
- Serial control and 6 output control
- Supports both SD and SDHC card up to 4G
- +5VDC Power input

Pin assignment:



Here is all you need to do to get this to work:

- Generate the MP3 files that you need.
- Rename the first file that you want to play to “01.mp3”, second file “02.mp3” etc.
- Format your SD/SDHC card with FAT16 or FAT32 format.
- Copy or drag each mp3 file once at a time from your computer to the SD card.
For example, drag 01.mp3, then 02.mp3, then 03.mp3...This ensures that they will be played back correctly.
- Plug the SD card into the MP3 board.
- Apply power to the board.

- The ACT LED on the MP3 board will flash if initialization completed.

Serial Control:

This MP3 player board can be controlled via RS232.

Format:	MP3 only
File naming:	01.mp3, 02.mp3...40.mp3 (Up to 40 songs)
Interface:	Rx, Tx @TTL level
Baud Rate:	9600,8,1,N (Default setting)
SD card:	32M or up
Power input:	DC 5V

Base Commands:

All commands must be sent in HEX format. For example, if you want to play song one, send 0x01, song two, send 0x02, Song 11, send 0x11 etc.

Command (hex)	Function	Return Code (HEX)
E0	Replay current song (Valid only when a MP3 is being played)	E1: Replay E0: Single
01...40	Play specified MP3 file (01-40)	01...40
E8	Volume -	E8 (Reach minimum: 00)
E9	Volume +	E9 (Reach maximum FF)
EA	Pause/Play	EA
EF	Stop	EF
	When one song ends	FF

Enhanced Commands:

Command (hex)	Function	Return Code (HEX)
A0	Not save the volume level	00
A1	Save the volume level	F0 (Default setting)
A2	Return total MP3 files	01-40
A3	Return current MP3 number (Valid only when a MP3 is being played)	01-40
A4	Return current volume level (Valid only when a MP3 is being played)	0101 to FEFE**
A5	Repeat playing all the MP3 files	FF
A6	Play one MP3 at a time	00 (Default setting)
B1	Change baud rate to 9600 (Valid after reboot)	B1 (Default setting)
B2	Change baud rate to 14400 (Valid after reboot)	B2
B3	Change baud rate to 19200 (Valid after reboot)	B3
B4	Change baud rate to 115200 (Valid after reboot)	B4

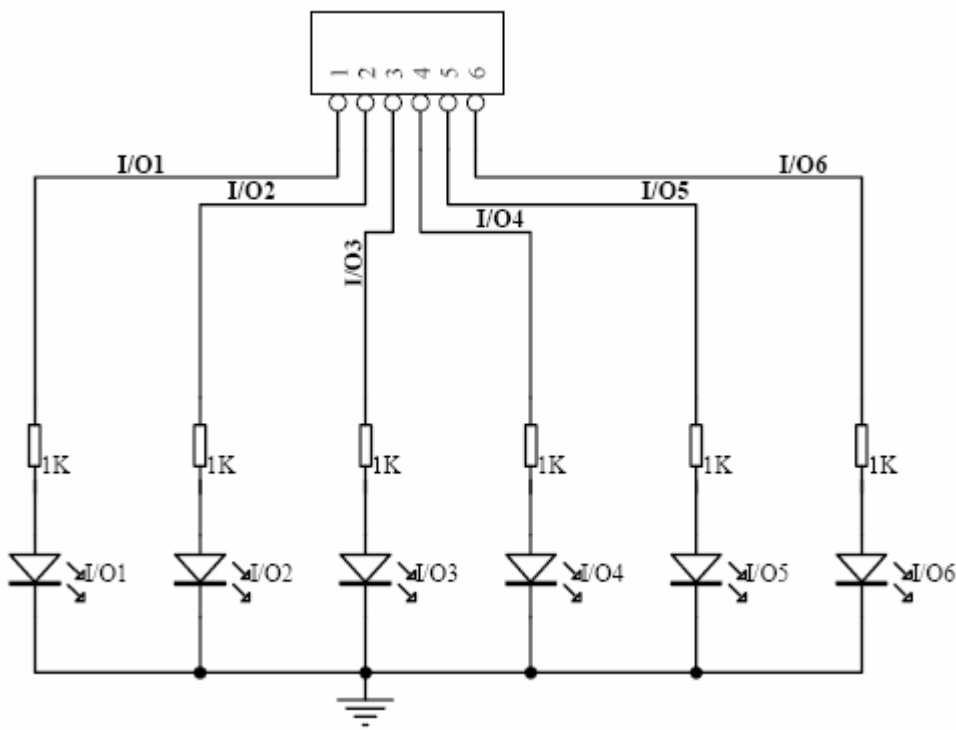
** The minimum volume level is 0x0101, the maximum volume level is 0xFEFE. Step: 0x0101. Total steps: 0xFD (253 steps)

I/O Control:

All commands must be HEX.

Command (hex)	Function	Return Code (HEX)
D1	I/O1 ON	D1
D2	I/O2 ON	D2
D3	I/O3 ON	D3
D4	I/O4 ON	D4
D5	I/O5 ON	D5
D6	I/O6 ON	D6
C1	I/O1 OFF	C1
C2	I/O2 OFF	C2
C3	I/O3 OFF	C3
C4	I/O4 OFF	C4
C5	I/O5 OFF	C5
C6	I/O6 OFF	C6

Wiring sample::



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