

FN-M16P MP3 Sound Module



Description:

FN-M16P is a small and low-price MP3 module with an simplified output directly to the speaker. The module can be used as a standalone module with attached battery, speaker and push buttons or used in combination with an Arduino UNO or any other with RX/TX capabilities.

Features:

- 1. Supports MP3 and WAV decoding.
- 2. Works with most Windows, Mac, and Linux systems
- 3. Supports FAT16 and FAT32 file system.
- 4. 24-bit DAC output and supports dynamic range 90dB and SNR 85dB.
- 5. Supports AD key control mode and UART RS232 serial control mode.
- 6. Supports maximum 32GB micro SD card and 32GB USB flash drive.
- 7. Supports maximum 3000 audio files under the root directory of the storage device.
- 8. Supports maximum 99 folders, and each folder can store 255 audio files.
- 9. Supports inter-cut advertisements.
- 10. Supports random playback.
- 11. Built-in a 3 watts amplifier that can direct drive a 3 watts speaker.
- 12. 30 levels adjustable volume, and 6 levels adjustable EQ.





Specifications:

• MP3 Format: Support 11172-3 and ISO13813-3-layer 3audio decoding

• UART Port: Standard serial; TTL level; Baud rate adjustable (default baud rate is 9600)

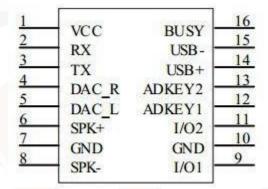
• Working voltage: DC 3.2-5.0V; Type: DC 4.2V

• Standby current: 20Ma

• Operating temperature: -40~+70°C

• Humidity: 5%~95%

Pin Function:



Pin Name	Pin Description	Note
VCC	Input voltage	DC 3.2~5.0V; Type: DC 4.2V
RX	UART serial input	
TX	UART serial output	
DAC-R	Audio output right channel	Drive earphone and amplifier
DAC-L	Audio output left channel	Drive earphone and amplifier
SPK2	Speaker	Driver speaker less than 3W
GND	Ground	Power GND
SPK1	Speaker +	Driver speaker less than 3W
IO1	Trigger port 1	Short press to play previous (long press to decrease volume)
GND	Ground	Power GND
IO2	Trigger port 2	Short press to play next (long press to increase volume)



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ADKEY1	AD Port 1	Trigger to play first segment
ADKEY2	AD Port 2	Trigger play fifth segment
USB+	USB+ DP	USB Port (connected with a USB flash or
		connected to pc)
USB+	USB-DP	USB Port (connected with a USB flash or
		connected to pc)
BUSY	Indicator pin	Low level when working / High level when
		standby

Applications:

- Car navigation voice broadcast.
- Road transport inspectors, toll stations voice prompts.
- Railway station, bus safety inspection voice prompts.
- Electricity, communications, financial business hall voice prompts.
- Vehicle into and out of the channel verify that the voice prompts.
- Public security border control channel voice prompts.
- Multi-channel voice alarm or equipment operating guide voice.
- Electric tourist car safe driving voice notices.
- Electromechanical equipment failure alarm.
- Fire alarm voice prompts.
- Automatic broadcast equipment, regular broadcast