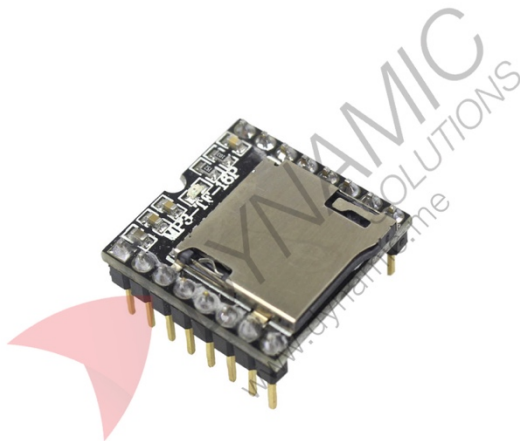


DFPlayer Mini MP3 Module with MicroSD Card Slot (OT4011)

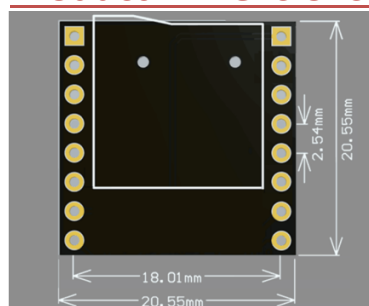


Features:

The DFPlayer Mini MP3 module is a small, low-cost audio player designed for embedded applications. Featuring a built-in MicroSD card slot, UART serial interface, and multiple playback control options, it supports FAT16/FAT32 file systems with up to 32GB storage. Audio output is available directly to speakers (up to 3W), DAC pins for amplifiers, or headphones. Ideal for voice alerts, sound effects in interactive installations, or standalone music players. Supports advanced features such as AD key control, serial control, playback folders, and sound advertisement waiting functions. Designed for 3.2V to 5V systems.

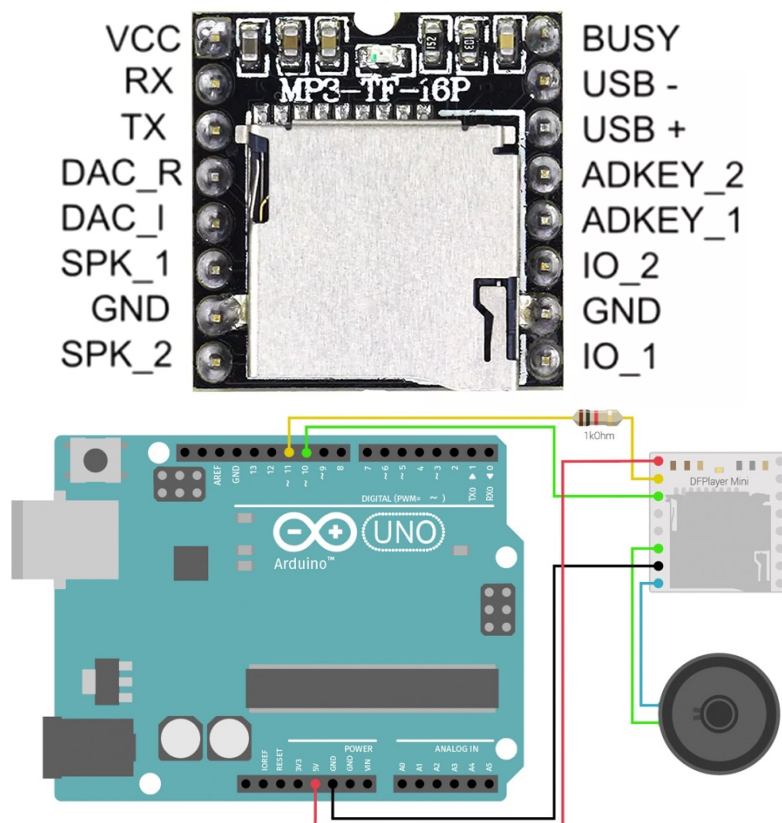
Specifications	
Sampling Rates	8/11.025/12/16/22.05/24/32/44.1/48 kHz
DAC Output	24-bit
Dynamic Range	90dB
SNR	85dB
File System	FAT16, FAT32
Max TF Card Size	32GB
Max NORFLASH	64MB
Control Modes	Serial, I/O, AD Key
Volume Levels	30
EQ Levels	6
Voltage Range	DC 3.2~5V
Dimensions	20mm x 20mm
Weight	20g

Product Dimensions:



Pinouts:

Pin Name	Type	Description
VCC	Power	Input voltage (DC 3.2V ~ 5.0V)
RX	Input	UART serial input
TX	Output	UART serial output
DAC_R	Output	Audio right channel (headphone/amplifier)
DAC_L	Output	Audio left channel (headphone/amplifier)
SPK_1	Output	Speaker+
GND	Ground	Power ground
SPK_2	Output	Speaker-
IO_1	Input	Play previous / decrease volume
GND	Ground	Power ground
IO_2	Input	Play next / increase volume
ADKEY_1	Input	Trigger play first segment
ADKEY_2	Input	Trigger play fifth segment
USB+	USB	USB DP
USB-	USB	USB DM
BUSY	Output	Playback status (Low: playing, High: idle)



Product Pictures:

