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Playing MP3's (and other types) on your ESP32 from an SD Card

O June 3, 2020 ▲ XTronical ▷ Audio, Uncategorized ♀ 18

How to play MP3's and other file formats on your ESP32 from an SD Card. All you need to know to make a simple music player. Code shown in video is below.

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Links:

Github page for the library used: https://github.com/schreibfaul1/ESP32-audiol2S

Affiliate links for the items shown: Clicking these costs you the same price but gives me a small commission, please consider supporting this channel by using them ³⁹

MAX98357A: https://amzn.to/3eovdrd

(You will need two of these for stereo sound)

ESP32: https://amzn.to/2Xzhc3k

Breadboards: https://amzn.to/2THZTvy

Speakers: https://amzn.to/2zBhK0F

16Gb SanDisk SD card: https://amzn.to/2XH1sLA

SD Card Reader, note this is the only one I could quickly find that said it supported 3.3v and it's for the normal size SD cards not Micro, you could always by a micro one and do my hack https://amzn.to/2ApOppK

The Demo Code

```
// will play many audio file formats, mp3,aac,flac etc.
// See github page : https://github.com/schreibfaul1/ESP32-audioI2S

#include "Arduino.h"
#include "SD.h"
#include "FS.h"

// Pigital I/O used
#define SD_CS
#define SPI_MOSI
#define SPI_MISO
#define SPI_SCK
#define SPI_SCK
#define SPI_SCK
#define SPI_SCK
#define I2S_BCLK
#define I2S_BCLK
#define I2S_BCLK
#define I2S_BCLK
#define I2S_LRC
#define I2S_LRC
#define I2S_LRC
```

```
digitalWrite(SD_CS, HIGH);
SPI.begin(SPI_SCK, SPI_MISO, SPI_MOSI);
Serial.begin(115200);
if(!SD.begin(SD_CS))

Serial.println("Error talking to SD card!");
while(true); // end program

audio.setPinout(I2S_BCLK, I2S_LRC, I2S_DOUT);
audio.setVolume(15); // 0...21
audio.connecttoFS(SD,"/Amaze.mp3");
}

void loop()

dudio.loop();
audio.loop();
audio
```

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18 COMMENTS



Cemoi

SEPTEMBER 16, 2020 AT 8:34 AM

Thank you very much for this post. Working good with .mp3 files. But not working with .wav files. What can be the reason?



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OCTOBER 18, 2020 AT 6:20 AM

Sorry for late reply, real life work has been very busy and I missed this comment. I imagine it's the library that has a problem. Although WAV's are the simplest files to play. I did have issues with AAC files. I would try different WAV's, i.e. different sample rates and stereo/mono and see what happens for them.



Sam

OCTOBER 15, 2020 AT 8:18 PM

Is there any way to pull the "audio.connecttoFS(SD,"/Amaze.mp3");" part out of the setup block and into its own function? Basically so I can have multiple files that play on different button presses. Something like this:



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OCTOBER 18, 2020 AT 6:28 AM

Yes, just put it where you want it to play. I am working on a new library to make all this simpler. Out sometime after Christmas



Ash

DECEMBER 1, 2020 AT 1:00 PM

Hi, I have tried the same setup and code for single speaker with MAX98357A Mono amplifier. But only noise is coming out. I have tried both .mp3 and .wav file. But it's not working. I have tested micro sd card module which is working fine. Could you help how to play mp3 using single speaker with single MAX98357A module?