

Micro SD Memory Card interface for 3.3V MCU

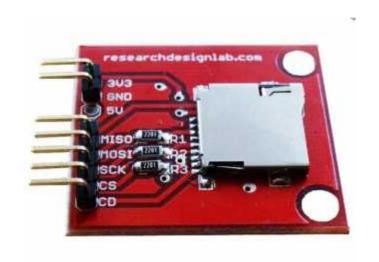




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OVERVIEW

INTRODUCTION



This is a wonderful little SD card interface module. It is easily interfaced as a peripheral to your module. Through programming, you can read and write to the SD card.All SD Card works on 3V interface so if your microcontroller is working on 3V you can use this board readily. The interface board provided is for microcontrollers running at 3V.

FEATURES

- This SD Card module can make your SD application more easier and simple.
- It is easily interfaced as a peripheral to your module.
- Through programming, you can read and write to the SD card.
- Can be used for SD Card more eaisly, such as for MP3 Player, MCU/ARM system control.
- All SD SPI pins output, MOSI, SCK, MISO and CS.
- Support 3.3V input.
- High quality PCB FR4 Grade with FPT Certified.



APPLICATIONS

- MP3 player.
- MCU/Arm system control.

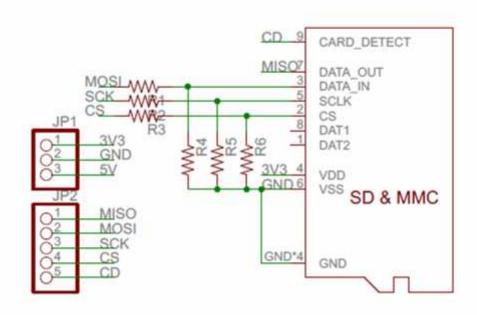
SPECIFICATIONS



| PIN | NAME | DETAILS |
|-----|------|-------------------|
| 1 | 3v3 | 3.3v Power supply |
| 2 | gnd | ground |
| 3 | 5v | Power supply |
| 4 | MISO | miso |
| 5 | MOSI | mosi |
| 6 | SCK | sck |
| 7 | CS | cs |
| 8 | CD | cd |



CIRCUIT DIAGRAM



ARDUINO CODE

/*

* Project name:

Micro SD Memory Card interface for 3.3V MCU

- * Copyright
- (c) Researchdesignlab.com
- * Description:
- * Test configuration:

MCU: ATMEGA328

Dev.Board: Arduino uno

Oscillator: 16 MHz Software: Arduino

*/

/*

/*

SD card read/write

This example shows how to read and write data to and from an SD card file The circuit:



```
* SD card attached to SPI bus as follows:
** MOSI - pin 11
** MISO - pin 12
** CLK - pin 13
** CS - pin 4
created Nov 2010
by David A. Mellis
modified 9 Apr 2012
by Tom Igoe
This example code is in the public domain.
*/
#include <SD.h>
File myFile;
void setup()
{
// Open serial communications and wait for port to open:
Serial.begin(9600);
while (!Serial) {
; // wait for serial port to connect.
}
Serial.print("Initializing SD card...");
// On the Ethernet Shield, CS is pin 4. It's set as an output by default.
// Note that even if it's not used as the CS pin, the hardware SS pin
// (10 on most Arduino boards, 53 on the Mega) must be left as an output
// or the SD library functions will not work.
pinMode(10, OUTPUT);
if (!SD.begin(4)) {
Serial.println("initialization failed!");
return;
}
```



Serial.println("initialization done."); // open the file. note that only one file can be open at a time, // so you have to close this one before opening another. myFile = SD.open("test.txt", FILE_WRITE); // if the file opened okay, write to it: if (myFile) { Serial.print("Writing to test.txt..."); myFile.println("testing 1, 2, 3."); // close the file: myFile.close(); Serial.println("done."); } else { // if the file didn't open, print an error: Serial.println("error opening test.txt"); } // re-open the file for reading: myFile = SD.open("test.txt"); if (myFile) { Serial.println("test.txt:"); // read from the file until there's nothing else in it: while (myFile.available()) { Serial.write(myFile.read()); } // close the file: myFile.close(); } else { // if the file didn't open, print an error: Serial.println("error opening test.txt"); } } void loop()



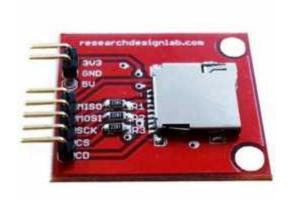
// nothing happens after setup
}



RELATED PRODUCTS

Micro SD Memory Card interface for 5V MCU

SanDisk Memory Card MicroSDHC 4GB





Data Logger Sheild Compatible for Arduino

