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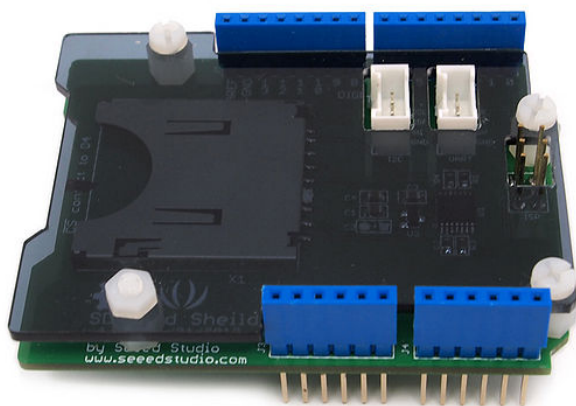
SD Card shield V4.0

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Introduction

This is the new-released SD card V4.0 shield. It provides a storage space for your Arduino. Users can read/write SD card via Arduino's built-in SD library. It supports SD, SDHC and Micro SD cards. It will only occupy the SPI port of your Arduino. Comparing to previous versions, it combines the standart SD slot and the Micro SD slot into a standard one, the included adaptor enables using of Micro SD cards. You can stack on other shields that work with the unused pins. Additionally, the preformed I2C and UART port facilitates your connection with Grove modules.



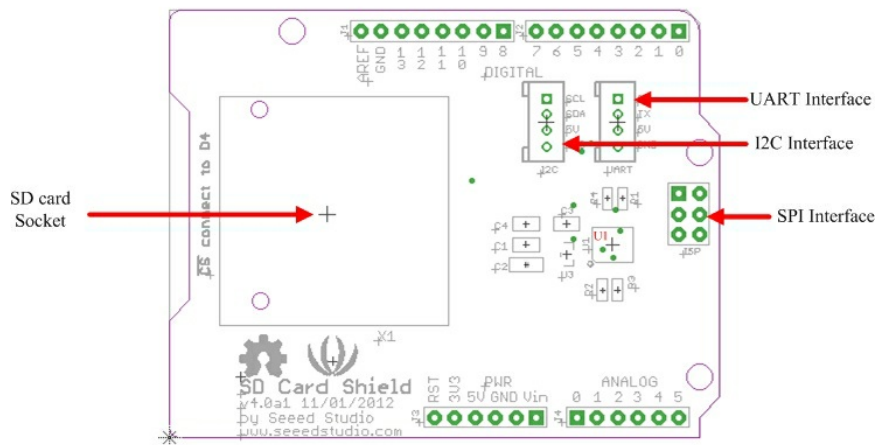
Features

- Stand SD card, SDHC card and TF card compatible
- UART Grove & I2C connection compatible
- Fully supported SD Library
- Minimal number of SPI port
- Truly stackable

Specification

Item	Min	Typical	Max	Unit
Voltage	3.5	5.0	5.5	V
Current	0.159	100	200	mA
Supported Card Type	SD card(<=16G); Micro SD card(<=2G); SDHC card(<=16G)			/
Dimension	68.7x53.5x19.00			mm
Net Weight	14.8			g

Interface Function



Pins usage on Arduino (with SD card)

D4: SD_CS;
D11: SD_DI;
D12: SD_DO;
D13: SD_CLK.

Note: The SD card format can be FAT16 or FAT32. The size of SD card and the SDHC card more than 16GB is not supported.

Usage

The following is instruction of the SD card shield.

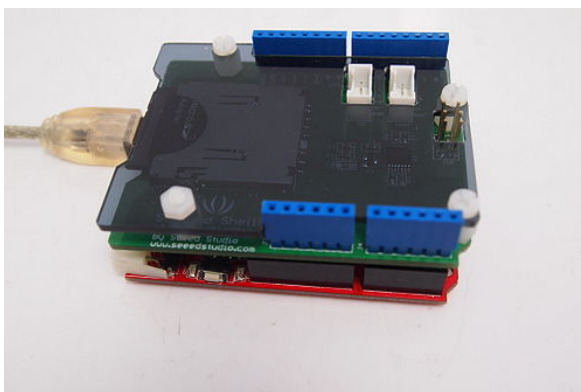
Hardware Installation

1. Insert your SD card into the socket, Plug the SD Card Shield onto the Arduino .
2. Connect the Arduino to PC using USB cable.

Note: When you use a Micro SD card, please insert Micro SD card into the adopter, and then insert the Micro SD card Adopter into the socket as shown below.



When you complete the hardware installation, it should look like this

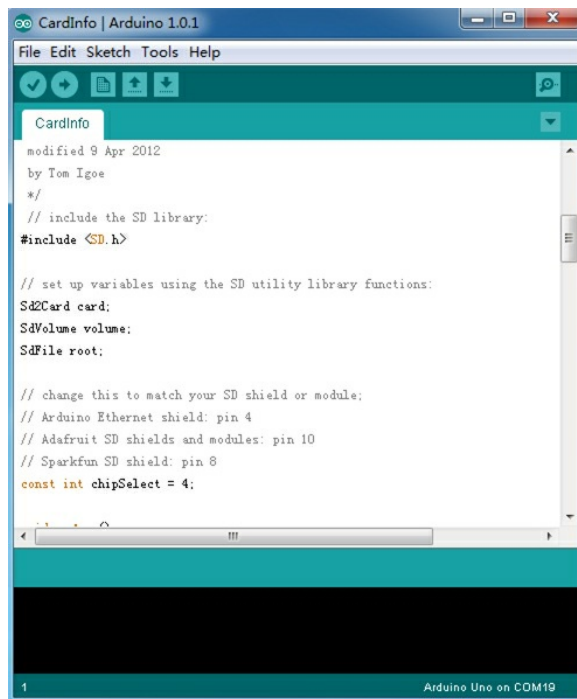


Upload the program

1. Restart the Arduino IDE. Open "CardInfo" example via the path: File -> Examples -> SD -> CardInfo.

This example shows how use the utility libraries on which the SD library is based in order to get info about your SD card. Very useful for testing a card when

you're not sure whether its working or not. There are also many other examples in this library, like "ReadWrite". You can always try them out.



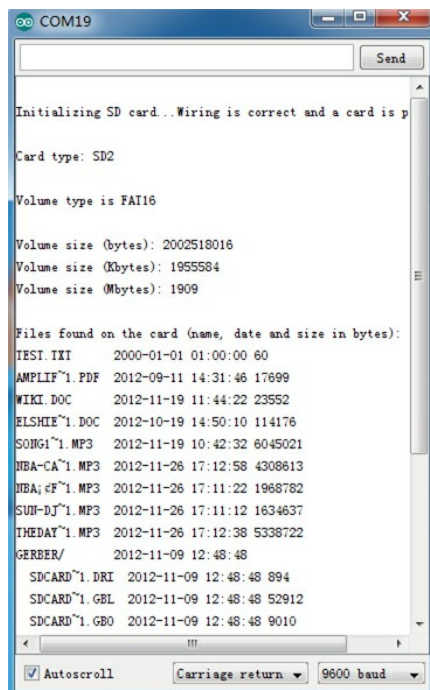
There has a brief description to above code:

First checks if the card is working. if not, there will output some reasons that may lead to this result.

In the case of the SD card normal work, it will print the SD card type. Then print the type and size of the FAT-type volume.

Finally, get the files information such as name, date and size in bytes that found on the card.

2. Upload the code. If you do not know how to upload code, please click [here](#).
3. View Results. You can see the follow image after Click the serial monitor.



4. If an error occurs, please recheck all the previous steps, and make sure the SD card is working. If none of that fixes the problem, try replacing the SD card.

Resources

[SD Card Shield v4.0 Schematic](#)

[SD Card Shield v4.0 Eagle File.zip](#)

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