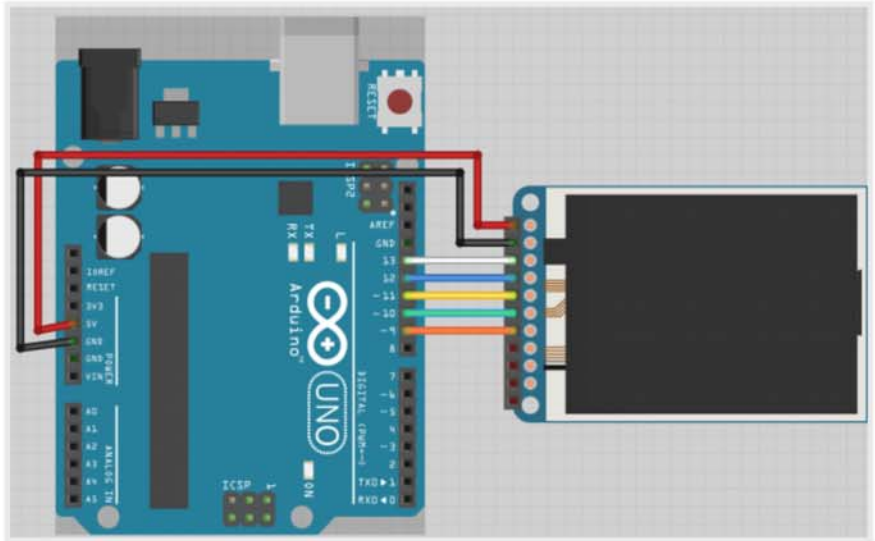## 1.8" TFT with serial interface

The following drawing shows the simplified connection of the display to an arduino:

The library used to drive the display is UTFT with the floowing call and the example **UTFT_Demo_160x128_Serial**:

```
UTFT myGLCD(ITDB18SP,12,13,9,10,11);
```

using the following connection and naming convention (as drawn above):

Display Pin	Arduino Pin	UTFT
Vcc	5V	n/a
GND	GND	n/a
SCL	13	WR
SDA	12	RS
RS/DC	11	SER
RES	10	RST
CS	9	CS
MISO	not used	not used
SCLK	not used	not used
MOSI	not used	not used
CS	not used	not used

Please note, that you can use any free pin to connect SCL, SDA, RS, RES and CS - the connection here is just one possible
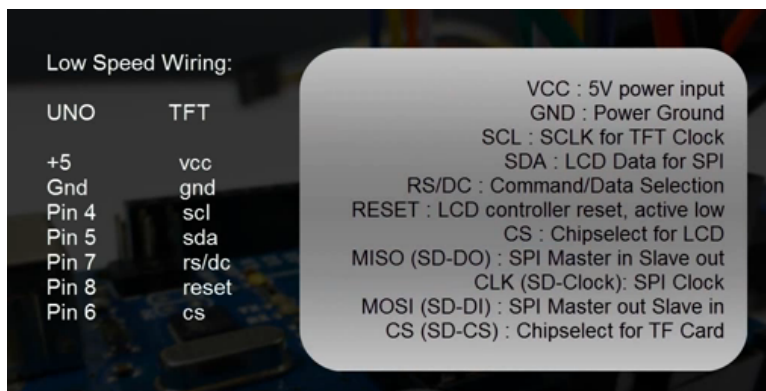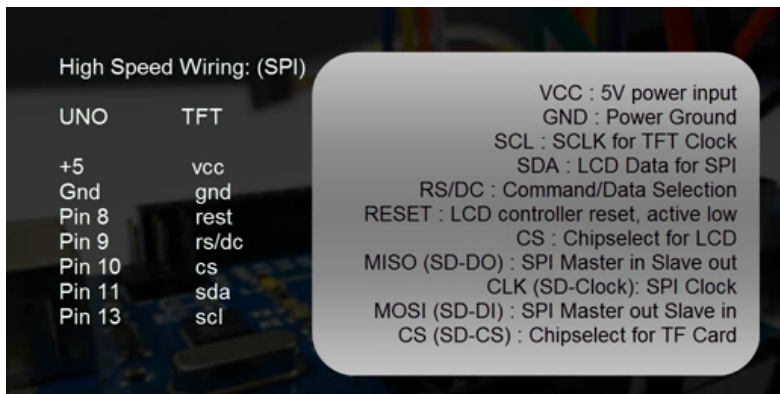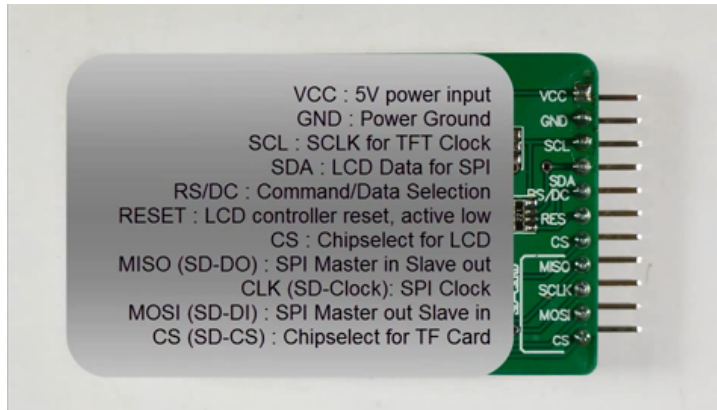
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Arduino - 1.8" TFT color LCD Display (1 of 2)

9/1/13 5:00 PM

This video gives an overview of the 1.8" color LCD, where to purchase and how to wire it to your Arduino. A detailed description of the pin outs are included for both the "fast" and "slow" wiring method. Also, I compare the write speed for both methods which demonstrates the performance of each.

VCC : 5V power input
GND : Power Ground
SCL : SCLK for TFT Clock
SDA : LCD Data for SPI
RS/DC : Command/Data Selection
RESET : LCD controller reset, active low
CS : Chipselect for LCD
MISO (SD-DO) : SPI Master in Slave out
CLK (SD-Clock): SPI Clock
MOSI (SD-DI) : SPI Master out Slave in
CS (SD-CS) : Chipselect for TF Card

High Speed Wiring: (SPI)

UNO	TFT
+5	vcc
Gnd	gnd
Pin 8	rest
Pin 9	rs/dc
Pin 10	cs
Pin 11	sda
Pin 13	scl

VCC : 5V power input
GND : Power Ground
SCL : SCLK for TFT Clock
SDA : LCD Data for SPI
RS/DC : Command/Data Selection
RESET : LCD controller reset, active low
CS : Chipselect for LCD
MISO (SD-DO) : SPI Master in Slave out
CLK (SD-Clock): SPI Clock
MOSI (SD-DI) : SPI Master out Slave in
CS (SD-CS) : Chipselect for TF Card

Low Speed Wiring:

UNO	TFT
+5	vcc
Gnd	gnd
Pin 4	scl
Pin 5	sda
Pin 7	rs/dc
Pin 8	reset
Pin 6	cs

VCC : 5V power input
GND : Power Ground
SCL : SCLK for TFT Clock
SDA : LCD Data for SPI
RS/DC : Command/Data Selection
RESET : LCD controller reset, active low
CS : Chipselect for LCD
MISO (SD-DO) : SPI Master in Slave out
CLK (SD-Clock): SPI Clock
MOSI (SD-DI) : SPI Master out Slave in
CS (SD-CS) : Chipselect for TF Card

ST7735
1.8"TFT LCD
128x160 Pixel

MOSI-B
RN2

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C1
C3

SD-CARD

CS
MOSI
SCLK
MISO
CS
RES
RS
SCK
SDA
SCL
GND
VCC

RN1

SOIN
SCLK