

# TFT SPI Display

To make the SPI display compatible to the usual Arduino ESP libraries, it is connected like this:

Display	ESP
LED	3v3
SCK	D5 (SPI CLK)
SDA SDI MOSI	D7 (SPI MOSI)
A0 DC RS	D4
RESET	D3
CS	D2
GND	GND
VCC	3v3

D2, D3 and D4 are defined in the software and can be changed.

## Addressing the display in the firmware

Board manager URL: [http://arduino.esp8266.com/stable/package\\_esp8266com\\_index.json](http://arduino.esp8266.com/stable/package_esp8266com_index.json) \ Board: NodeMCU 1.0 (ESP-12E Module)

to install:

- Adafruit graphics library
- Adafruit ILI9341 TFT library

include:

```
#include "Adafruit_GFX.h" // include Adafruit graphics library
#include "Adafruit_ILI9341.h" // include Adafruit ILI9341 TFT library
```

initialization:

```
#define TFT_CS D2
#define TFT_RST D3
#define TFT_DC D4
Adafruit_ILI9341 tft = Adafruit_ILI9341(TFT_CS, TFT_DC, TFT_RST);
```

Start:

```
tft.begin();
tft.setRotation(3);
tft.fillScreen(ILI9341_BLACK);
printText(0,0, "Test Text");
```

From:

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