# General

The ST7735 comunicates using SPI

SPI interface

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Interface** | **On ESP32 (GPIO)** | **On Slave** | **On Slave (LCD)** | **Even more** |  |
| MISO | 23 | SDO |  |  |  |
| MOSI | 19 | SDI | SDA | DIN |  |
| SCK | 18 |  | SCL | CLK |  |
| CS/SS | 5 |  |  |  |  |
| GPIO |  |  | RES |  |  |
| GPIO |  |  | DC |  |  |
| GPIO |  |  | CS |  |  |

<https://randomnerdtutorials.com/esp32-spi-communication-arduino/>

# On the 1.8 SPI 128X160

Looking down on the device

On LCD On ESP

Pin1 RST

2 CS

3 D/C

4 DIN

5 CLK

6 Vin

7 BL

8 0V

Works fine with Adafruit GFX

## Adafruit GFX

<http://greekgeeks.net/#maker-tools_convertColor> Convert from 24 to 16 bit colour

<https://htmlcolorcodes.com/color-chart/>

Standard character is 6x8 (too small)

Increase font to 2 seems too big