

EGR-326-Prelab-6

The MCU communicates to the LED through the usage of the SPI comm protocol. In RAM, (Random access memory), is read with row and col counters. The pixel core is controlled to be the given RGB color from the LUT table.

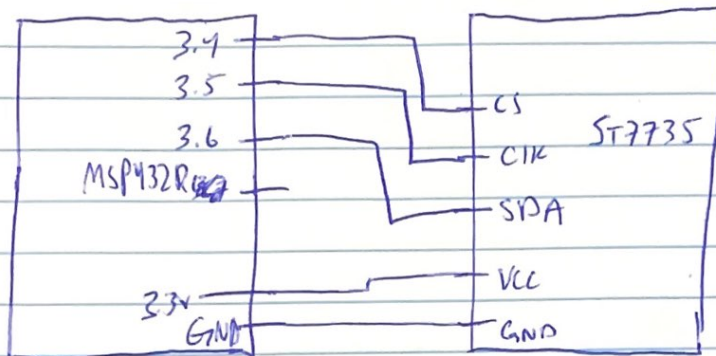


Figure 1: MSP432 to ST7735 connections

SPI terms:

Master out Slave in: MOSI

Master in Slave out: MISO

Master Clock: SCK

Slave Select: SS

MISO is not used in example code.

The SPI's data rate is 4MHz, there are no interrupts, ^{little⁸} endian IS the way bytes are sent. ^{reading}
You write in 16 bit as

1 2 3
R G B