RGB LED Module (unassembled Kit)

SKU:DFR0124

INTRODUCTION

This Arduino-compatible module uses three TI TLC5940 PWM LED chips to drive a 4x4 array of RGB LEDs. Each color is controlled by a different chip so you can adjust the reference resistors for the appropriate current. The TLC5940 chips are not directly connected to any Arduino pins, but a header is provided for you to make a manual connection depending on the needs of your sketch.

Up to 16 of these modules can be serially connected to make a fantastic LED wall or a LED circle.

It can be directly connected with Arduino via F/M cables. If you want ,you can also connect it to Interface shield through an IDC2x5 cables,and then plug the Interface shield to Arduino.

NOTE: This is a Un-assembled Kit, you need soldering skill to assemble it. A tutorial is available as a reference.

If you feel the assignment of the leds is not good enough, you could assign the LEDs in a custom pattern by wiring to the LED driving holes.

SPECIFICATION

- Supply Power:DC 5v
- RGB LED: common anode
- IDC2x5 Serial Data Interface
- 4x4 array of RGB LEDs
- TLC5940 LED driver
- 16 Channels RGB LED with PWM control
- Size:78x45x12mm (3x1.8x0.5")
- Interface:
  - D13(SCK) TLC5940 SCLK
  - D10(SS)   TLC5940 BLANK
  - D11(MOSI)   TLC5940 SIN
  - D9   TLC5940 XLAT
  - D3   TLC5940 GSCLK

SHIPPING LIST

- RGB Module PCB board x1
- RGB LEDs x16
- IDC10 Interface x1
- TLC5940NT chips x3
- DIP28 socket x3
- Jumper cap x1
- 20pin row needles x1