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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



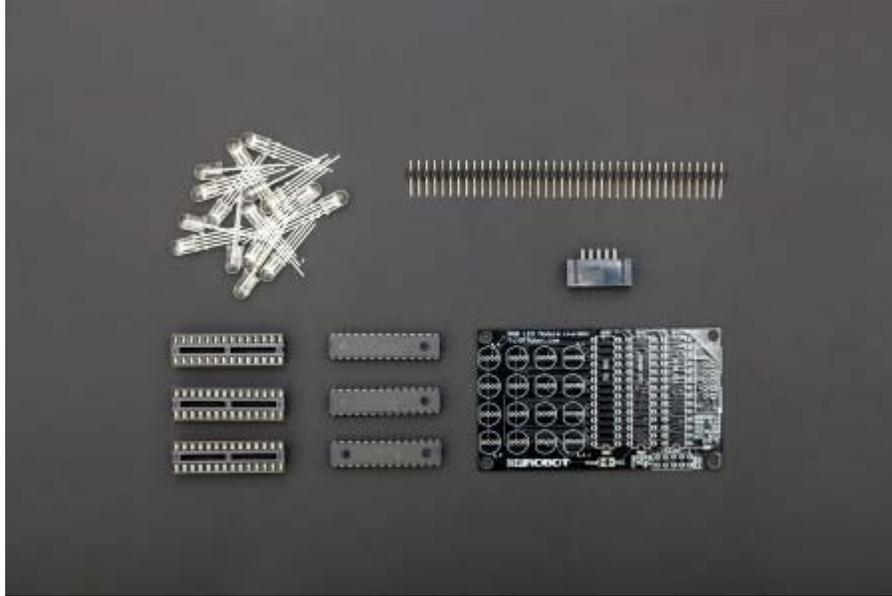
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## RGB LED Module (unassembled Kit)

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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