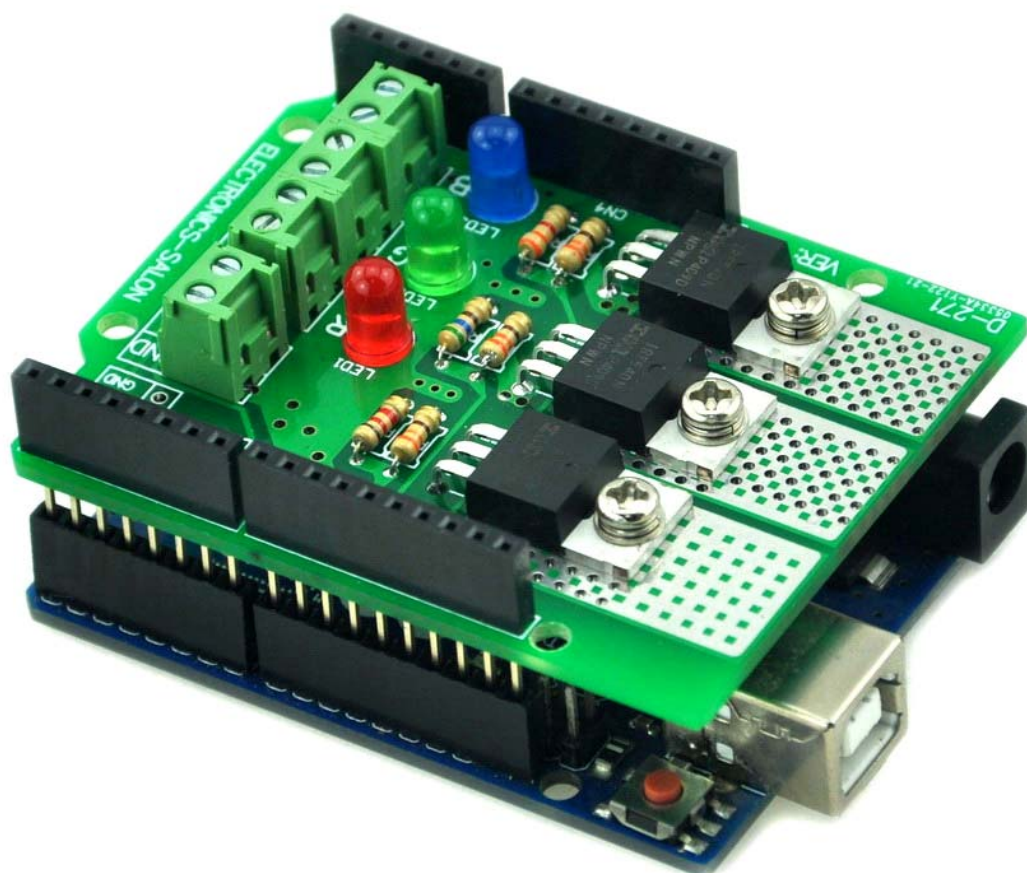


AudioWind Electronics-Salon

SPECIFICATION

Model: D-271



RGB LED Shield Kit for Arduino DIY

Features:

Control 3 dimmer channels (1 x RGB or 3 single channels)

For Arduino UNO R3 or Arduino MEGA R3.

Screw terminals for led strip connection.

With cascade connectors for other shields

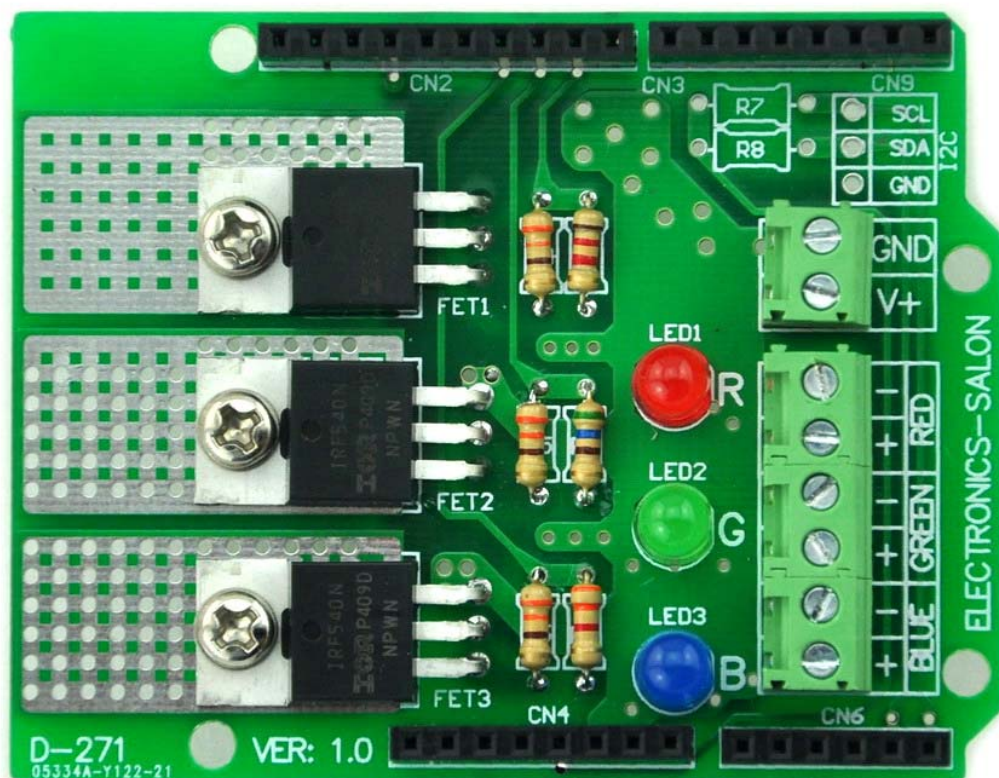
Specifications:

Power supply: external power, DC.

Max. current: 3A / channel.

Input voltage: 5 ~ 80VDC.

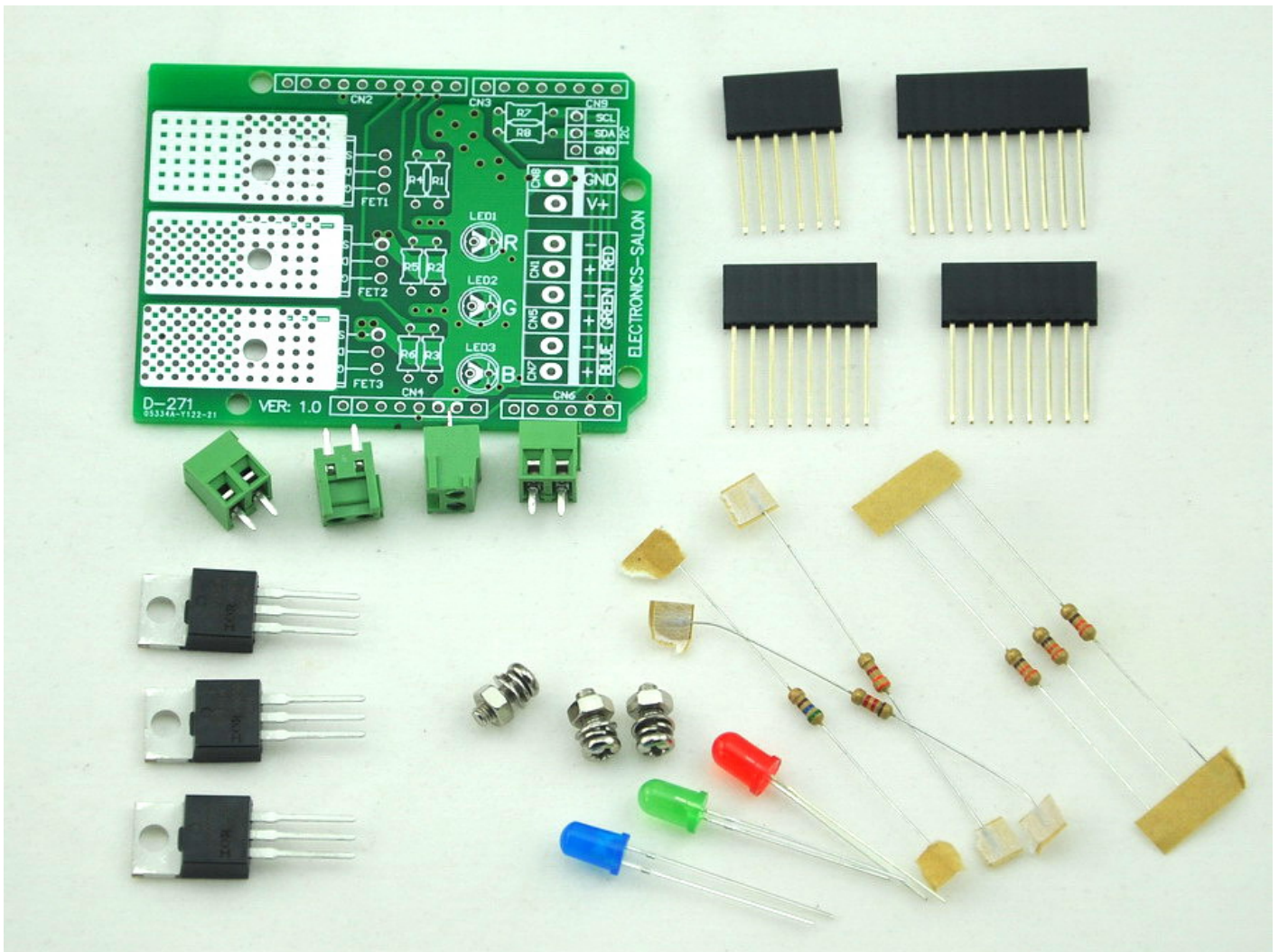
Dimensions: 68.8 x 53.5mm / 2.71 x 2.11 inch.



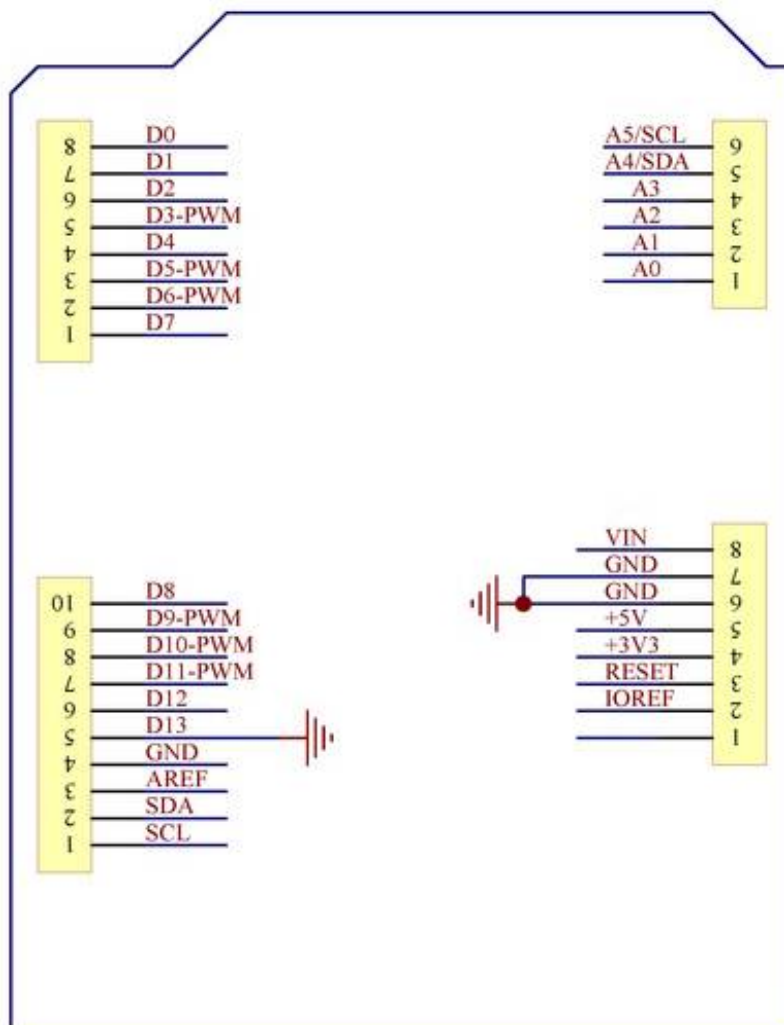
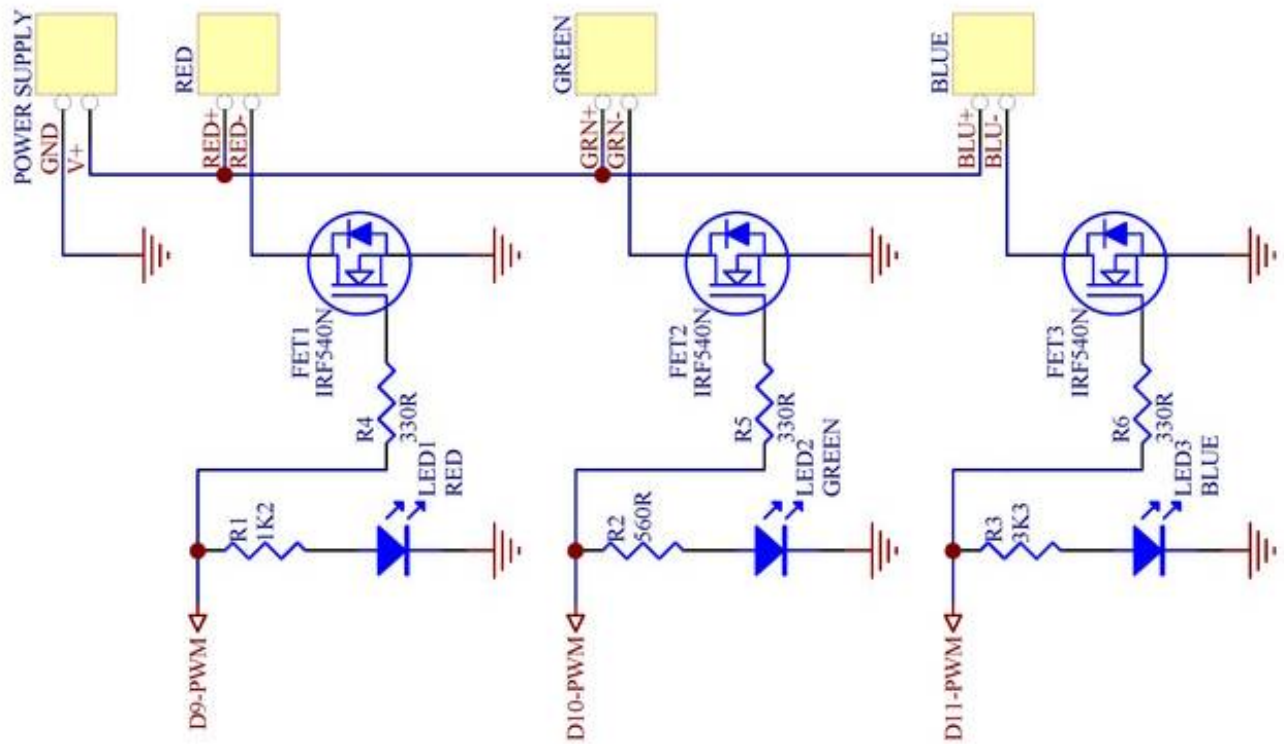
Kit list:

Bill Of Material

Part	Quantity	Location
D-271 bare PCB	1	x
D5mm red LED	1	LED1
D5mm green LED	1	LED2
D5mm blue LED	1	LED3
IRF540N FET	3	FET1, FET2, FET3
1/4W 330 ohm resistor	3	R4, R5, R6
1/4W 1.2K ohm resistor	1	R1
1/4W 560 ohm resistor	1	R2
1/4W 3.3K ohm resistor	1	R3
6pin header connector	1	CN6
8pin header connector	2	CN3, CN4
10pin header connector	1	CN2
2pin terminal block	4	CN1, CN5, CN7, CN8
M3 nut	3	Mount FET1 FET2 FET3
M3x8mm screw	3	Mount FET1 FET2 FET3

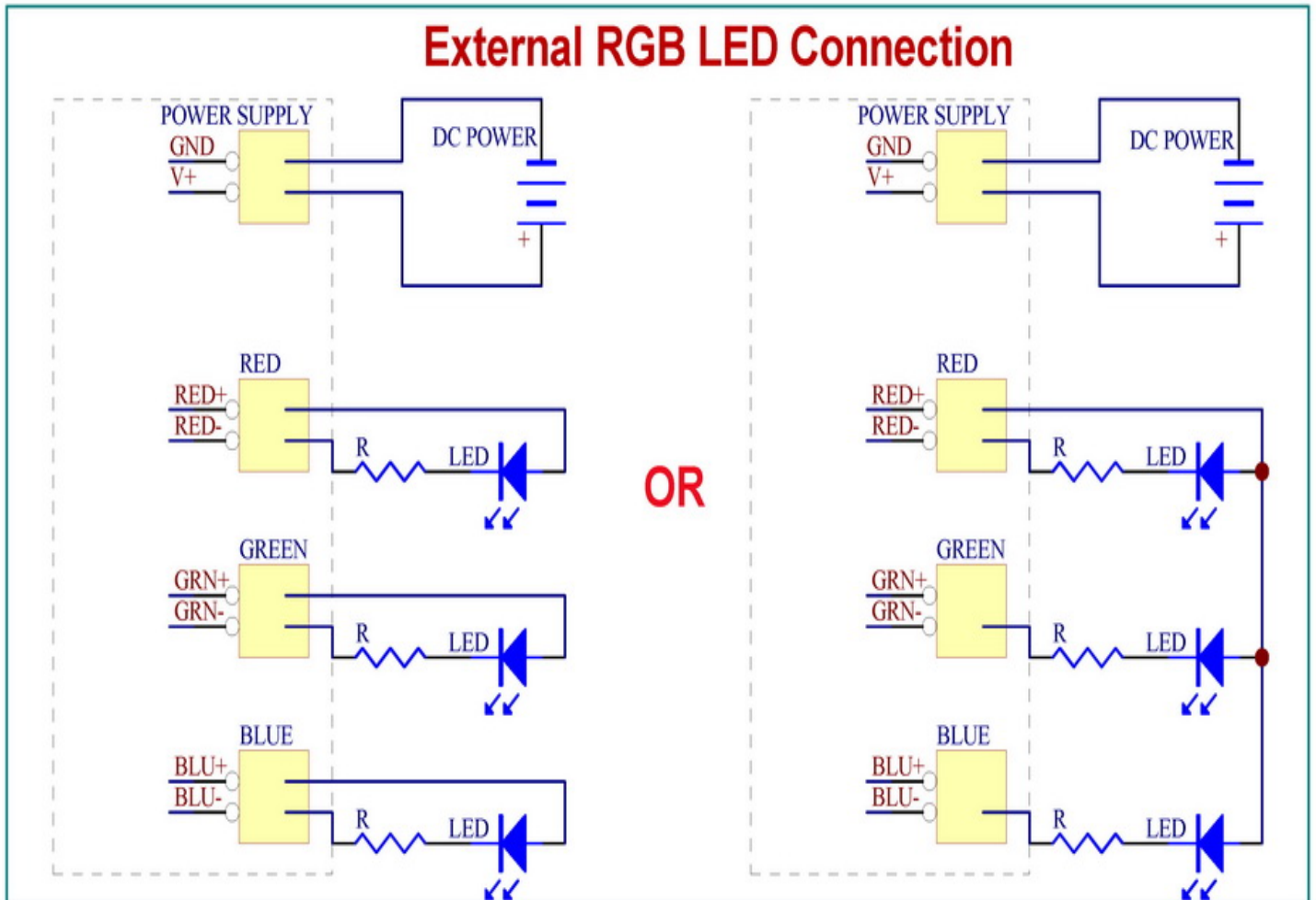


Schematic:



LED Connection:

I just draw out a simple connection diagram, you can series-connect more LED depending on the power supply voltage.



Example Program (for Arduino test):

```
/******
```

```
int RedLED_out    = 9;
int GreenLED_out  = 10;
int BlueLED_out   = 11;
```

```
void setup()
```

```
{
  pinMode (RedLED_out, OUTPUT);
  pinMode (GreenLED_out, OUTPUT);
  pinMode (BlueLED_out, OUTPUT);
  digitalWrite(RedLED_out, LOW);
  digitalWrite(GreenLED_out, LOW);
  digitalWrite(BlueLED_out, LOW);
}
```

```
void loop()
```

```
{
  digitalWrite(RedLED_out, HIGH);
  digitalWrite(GreenLED_out, LOW);
  digitalWrite(BlueLED_out, LOW);
  delay(500);
  digitalWrite(RedLED_out, LOW);
  digitalWrite(GreenLED_out, HIGH);
  digitalWrite(BlueLED_out, LOW);
  delay(500);
  digitalWrite(RedLED_out, LOW);
  digitalWrite(GreenLED_out, LOW);
  digitalWrite(BlueLED_out, HIGH);
  delay(500);
}
```