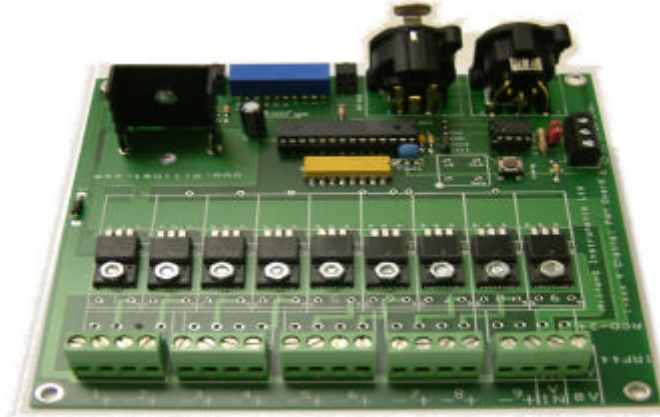


## **DMX- 9 Channel LED Driver Board, Part # 1-574**



The DMX- 9 Channel LED driver board allows up to 9 LED Arrays or 3 RGB Strips to be driven and controlled directly from a DMX512 network. The standard 1-574 board uses power mosfets in open collector mode for the PWM outputs. As an alternative, the board may be ordered pre-fitted with RCD led drivers (please see the separate 1-574RCD data sheet for further details)

The board provides 9 output channels of PWM running at 2 kHz. The base address may be set anywhere between 1 and 503.

### **Connections:**

**DMX :** Dual 5 Pin XLR and 2 x 3-pin terminal connections  
**1/G** = Cable Screen , **2/P2**= Data - , **3/P3** = Data +

**Power:** Twin screw-terminal connections, 0 and +V.  
Power requirements, 0.5Amps plus LED current at 9-15V DC (24V DC version available POA)

**LED Outputs:** Twin screw-terminal connections for each channel- see below for maximum current ratings

### **LED PWM**

The DMX value on the base address channel controls the PWM drive on output 1. A DMX value of 0 will switch the load OFF and a value of 255 will switch the load ON. 128 will generate a 50% duty PWM signal running at 2kHz. The resolution of the PWM stream is 8-bit.

The value on the base address controls output 1, Base address +1 controls output 2 etc. The PWM signal is set to OFF when a valid DMX signal is not being received.

### **Base Address Selection:**

The base address may be set between 1 and 503 using the DIP switches. Calculate the setting by adding the value of the switches that are set to the ON position. The Base Address is continuously read. No address selected (address =0) defaults to address 1.

### **Outputs:**

The 9 output channels are rated at 1 Amp maximum per channel (9 Amps total) if wired as figure 1 or 2 Amps maximum per channel (18 amps total) if wired as Figure 2 and are arranged as open collector outputs.

LED arrays should be wired as *Arrays option Figure 1 or 2*

RGB LED strips should be common anode format and have their common anode connection wired to one of the “+” terminal outputs and their individual cathodes to the relevant “-“ output terminal on the board – see *RGB option Figure 1 or 2*.

**All LED Arrays and RGB strips must include suitable current limiting resistors and be connected as either figure 1 or 2 depending on the load current**

### **Indicators:**

Power LED: RED LED lit when power applied

DMX Status LED: Lit when valid DMX signal being received. Flashing red LED when no DMX signal being received.

**Mechanical:** PCB size: W132mm x D126mm x H32MM.

Figure 1:

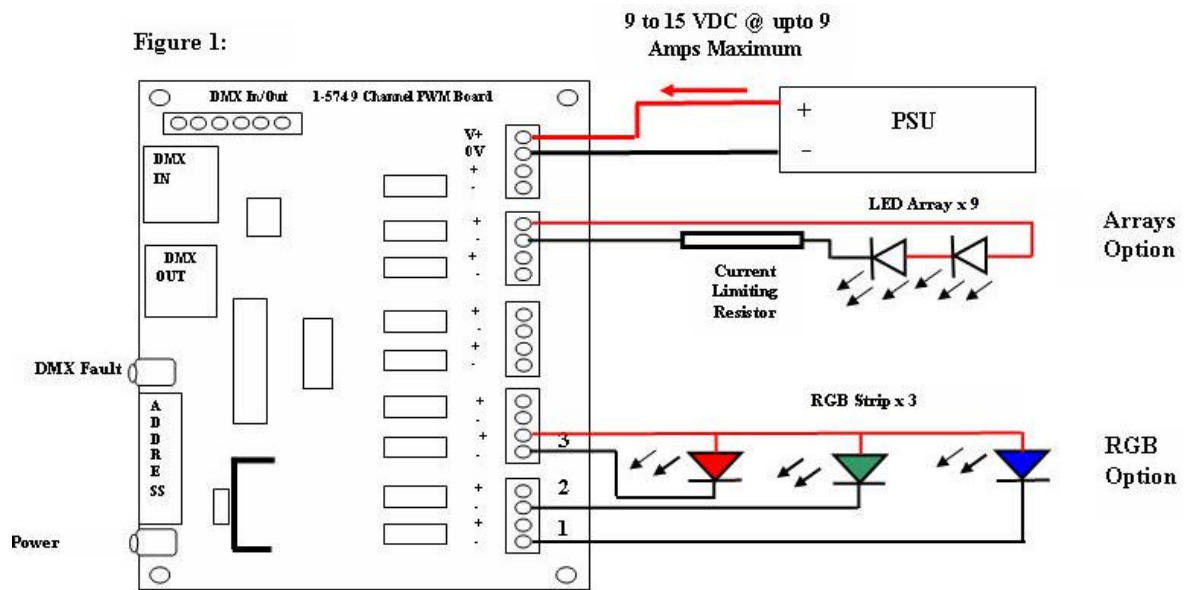


Figure 2:

