

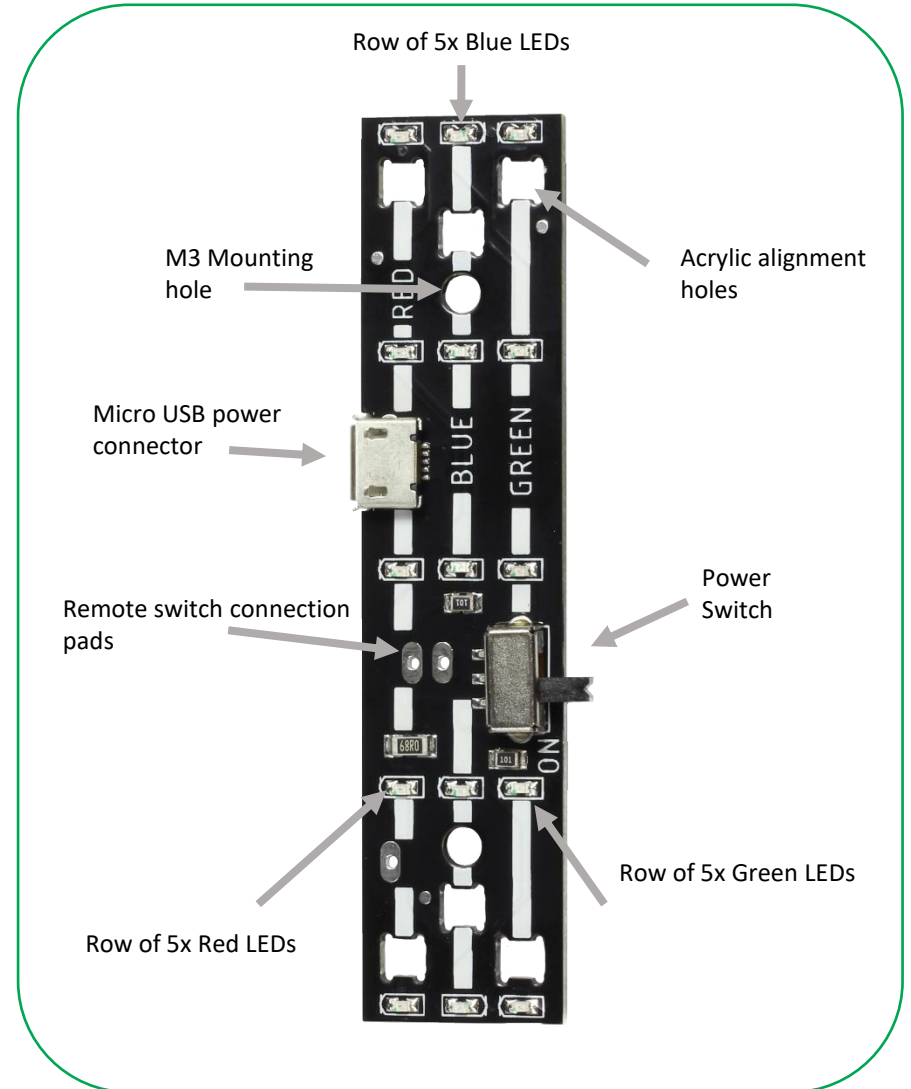
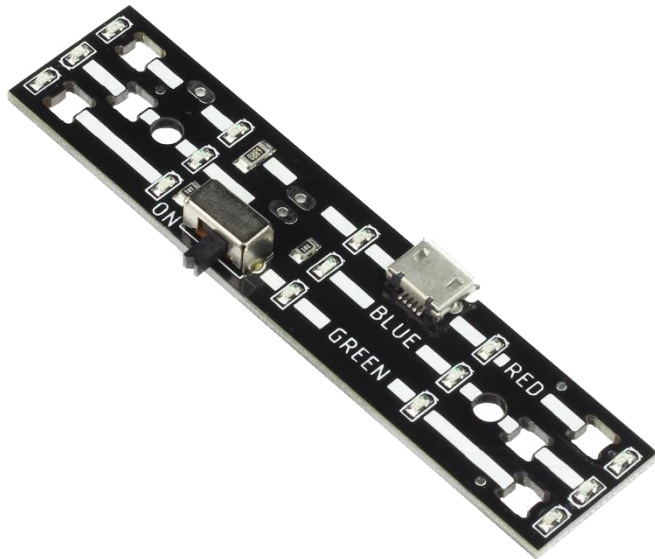
Tricolour LED Strip

The LED Strip is a board designed for low power lighting displays, such as edge lit signs and illustrations.

The board is designed such that it is within the of the supply rating of a computer USB port (under 100mA).

The PCB is approximately 75mm long, 17mm wide, and is provided with a pair of M3 mounting holes, and sets of alignment holes to align 3mm (nominal) acrylic with the LEDs.

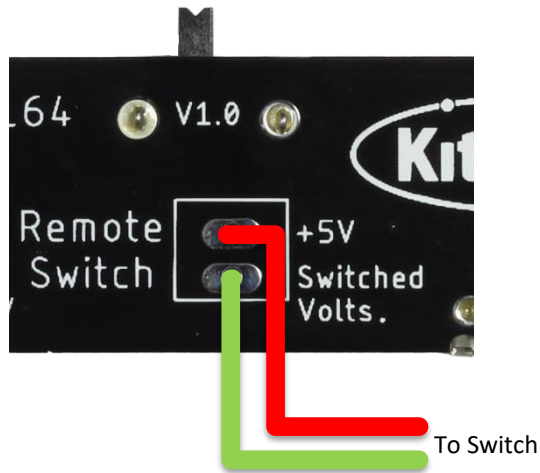
The side mounted switch can be used to turn on/off the LEDs. An additional switch can be connected in parallel with the PCB switch to allow remote mounting within an enclosure. When using a remote switch the PCB mounted switch should be left switched to 'Off'.



Specification	
Operational Supply	5V via micro USB connector
Forward Current	~100mA at 5V
Number of LEDs	5 each of Red, Green and Blue.
Mounting	Two M3 holes (3.3mm diameter)

Wiring a remote switch

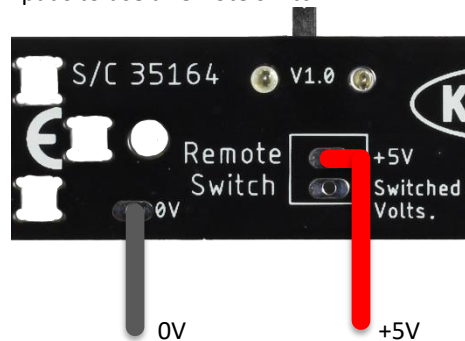
The remote switch is wired across the pads marked +5V and Switched Voltage.



Powering from a 5V supply

It is possible to connect a none USB power supply to the board via the 5V and 0V pads. Caution: voltages over 5.5V may cause damage to the board.

Wire to +5V and 0V to use the onboard switch, or wire the 5V to a remote switch and then into the Switched Voltage and 0V pads to use a remote switch.



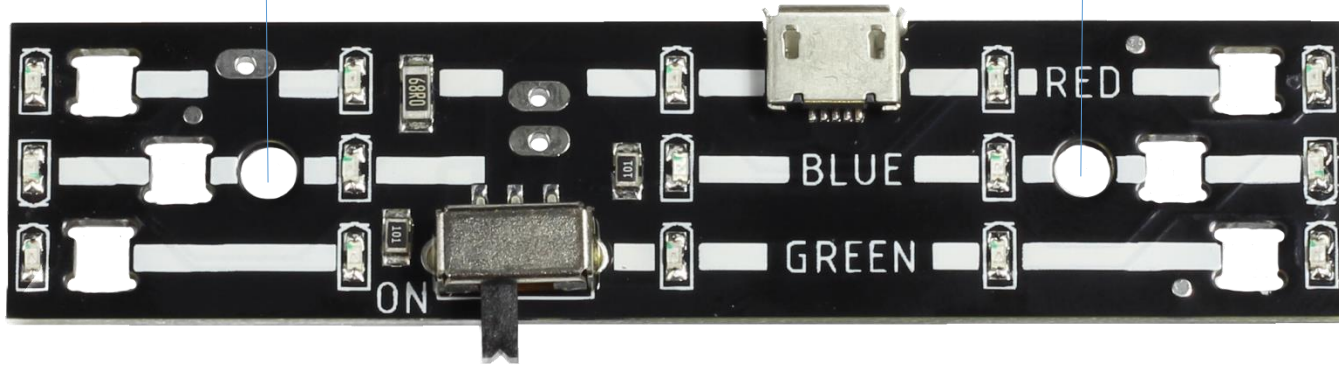
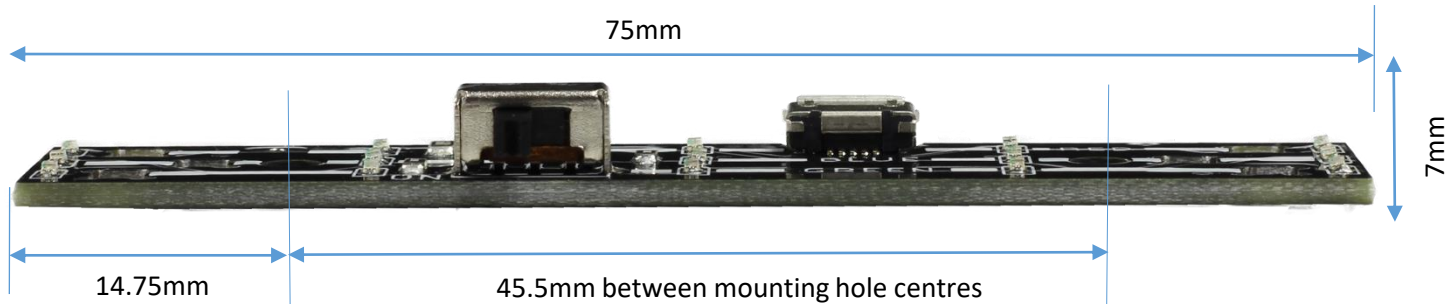
Linking several units

It is possible to connect several units to be switched by one switch using the solder pads.

The fitted switch is rated at 300mA – linking more than 3 units requires a suitably rated external switch to be fitted in the circuit.

Caution: voltages over 5V may cause damage to the board.

Dimensions



(Dimensions +/- 0.8mm)

Templates for suggested alignment piece:

These are suggested shapes and dimensions for the bottom edge of 3mm acrylic to fit the alignment holes in the PCB and clear the larger components. This also available as a DXF download from www.kitronik.co.uk/35164

