

8 LED Chase Controller

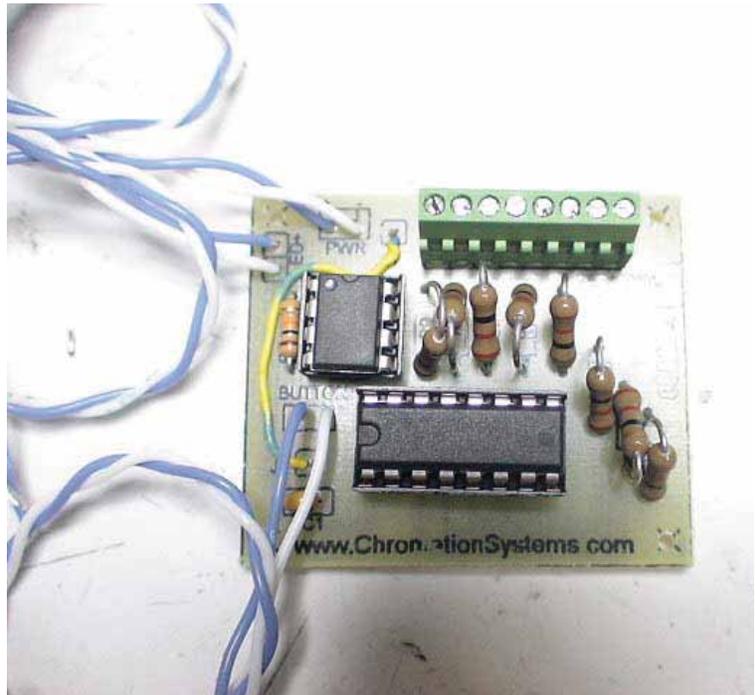
Description:

A bare-bones controller used to drive 8 single color LEDs. Based on an 12F675 and a high-power shift register, and single push button for control. Altering the source code allows custom patterns to be added.

Good for Case Lights, Infinity Mirrors, ambient lights.

Features:

- 8 Channels
- 4-state PWM
- Up to 200ma per Channel
- Very Low Part Count
- 5 Patterns
- Free Source Code for adding custom patterns
- Easy to add ICSP.



Specification:

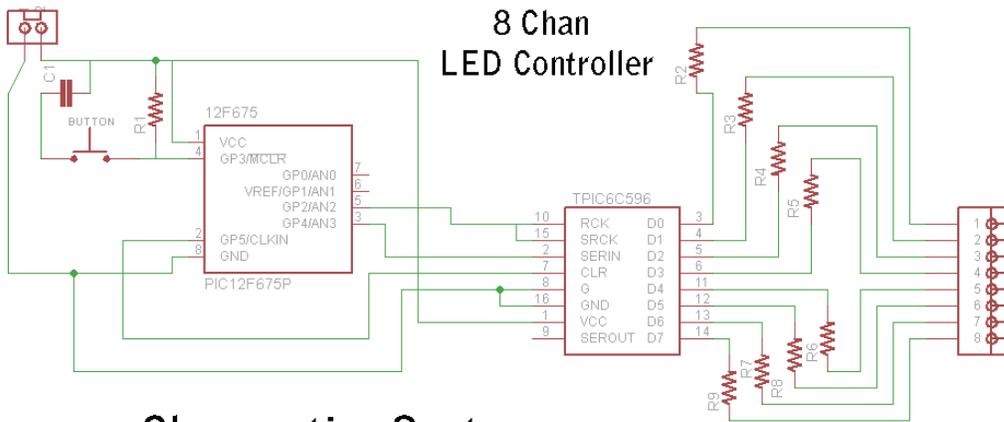
Input Voltage	3.3 - 6v*
Input Current	700 ma**
Output	8 Current Sink Channels
Connectors	0.1" Pitch
Dimension	1.5" x 2" x 0.5"

*Kits are setup for 5 volts.

**Based on 32 LEDs at 20ma each.

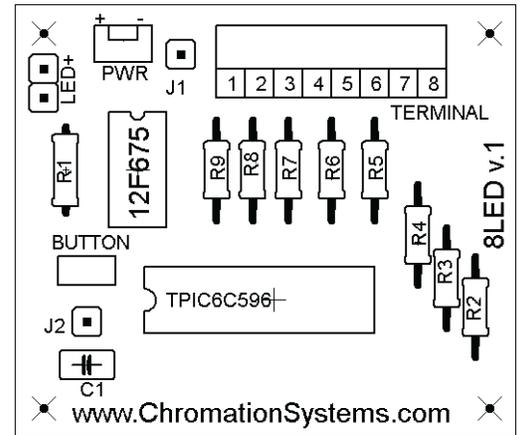
For More Information and building instructions visit the website at www.ChromatationSystems.com/8chanled.html or E-Mail to Support@ChromatationSystems.com

8 LED Chase Driver



www.Chromationsystems.com

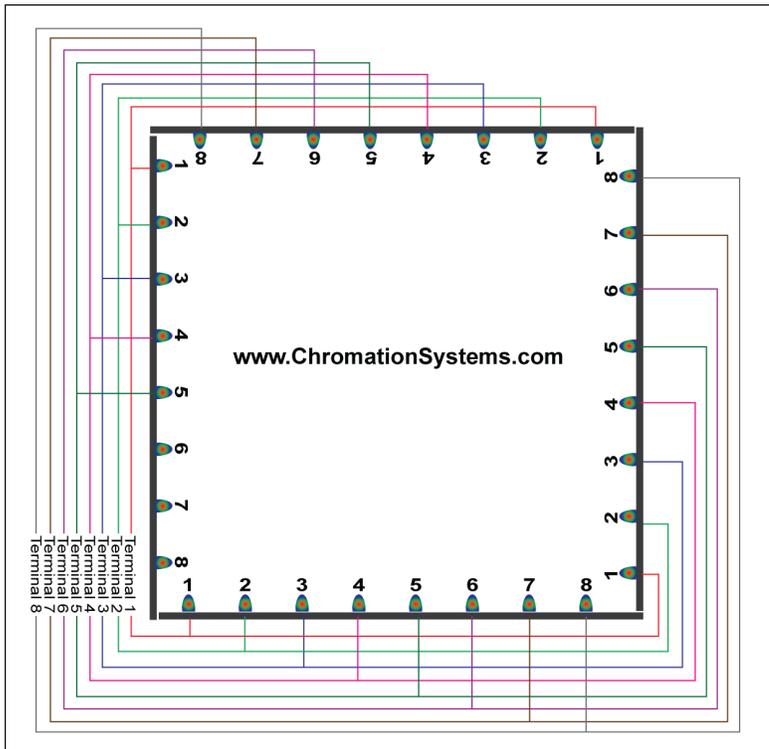
1a. Schematic



2a. Part Layout

Parts:

- programmed 12F675 (8-pin)
- 8 pin socket
- PCB
- 8 Position Screw-Down Terminal, with 0.1" (DIP) spacing.
- TPIC6C596, shift register
- 16 pin socket
- 10k 1/4w resistor (Brown, Black, Orange), R1
- 0.1uf Capacitor, C1
- 8 resistors, value depends on LED Color
Approx: 20 - 40 ohm, R2 - R9
- 32 LEDs, choice of colors
- Board mount momentary push-button
(kit comes with an extra panel-mount button)
- scrap of perfboard
- Dual-Strand wire, 22 ga
- ~2" of solid strand for jumping



3a. LED Wiring Diagram