



Raffar
Technology Corp.

Raffar Technology Corp.

RT7919

3-channel RGB LED driver

2019 / 05

Version: 0.4

Description

RT7919 is a 3-channel LED driver with 8 bits PWM linear control. The RT7919 uses a single communication wire to identify LED PWM signal and in total 24 bits RGB display. This is a very simple and cost effective for any LED system design.

The LED PWM output controlled by duty ration which depends on the 24 bits data each for RGB outputs. All chips will latch new data when DIN port received the latch signal (> 50us low-level signal)

Features

- Operating supply voltage: 4.2V ~ 5.5 V
- Constant current output: 18 mA
- Max. output voltage: 17 V
- 8 bits PWM control with 256 steps grayscale for each RGB output
- Clock frequency: 800kbps
- Single wire signal control
- Operating temperature: 0 °C ~ +85 °C

Application

Indoor/ Outdoor LED video display
Full color LED light strip
LED decorative lighting

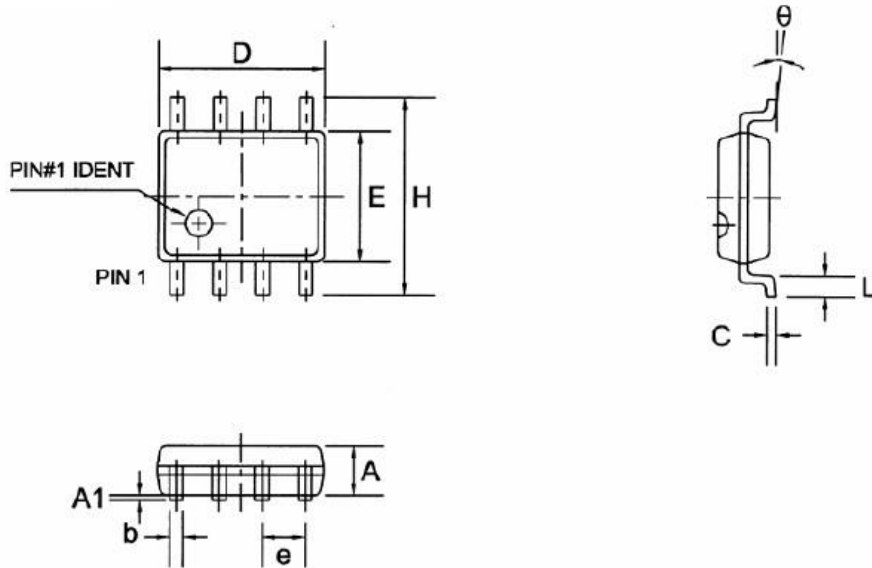
Purchase Information

No.	Part No.	Package
1	RT7919SP	SOP8
2	RT7919LD	5050 SMD LED
3	RT7919BD	Bare Die
4	RT7919DN	DFN8 2x2mm



Package Outline Dimension

SOP8 Dimension



Symbol	Millimeters (mm)		Inches (in)	
	Min.	Max.	Min.	Max.
A	1.3	1.7	0.051	0.067
A1	0.06	0.26	0.002	0.010
b	0.300	0.55	0.012	0.022
c	0.15	0.35	0.006	0.014
D	4.72	5.12	0.186	0.202
E	3.75	4.15	0.148	0.163
e	1.27		0.05	
H	5.7	6.3	0.224	0.248
L	0.45	0.85	0.026	0.033
θ	0°	8°	0°	8°

