

LED Drivers for Digital Signage

Quick Reference Guide



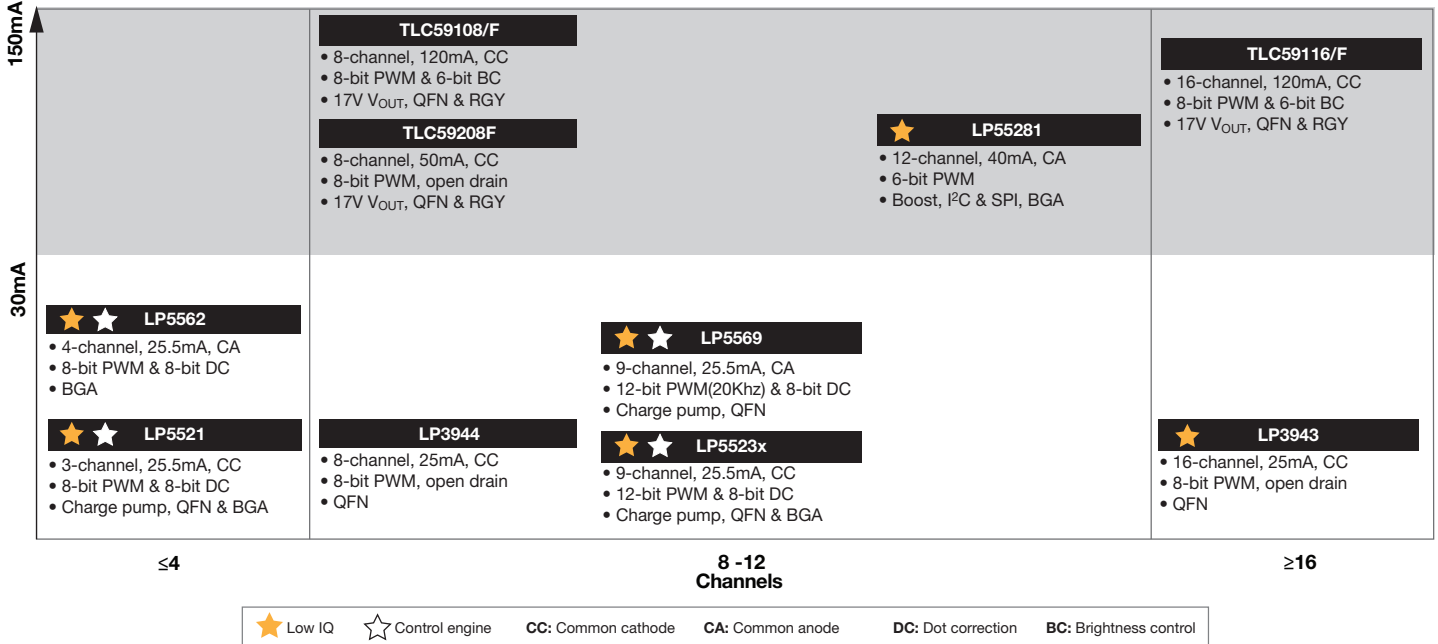
Light Emitting Diode (LED) drivers are a simple solution to managing LED brightness, dimming and color mixing. The most critical parameters for [LED drivers](#) are input voltage range, per-channel drive, and operating temperature. This quick reference guide provides you some of TI's most popular LED drivers on the market today for digital signage applications.

Serial Data Interface

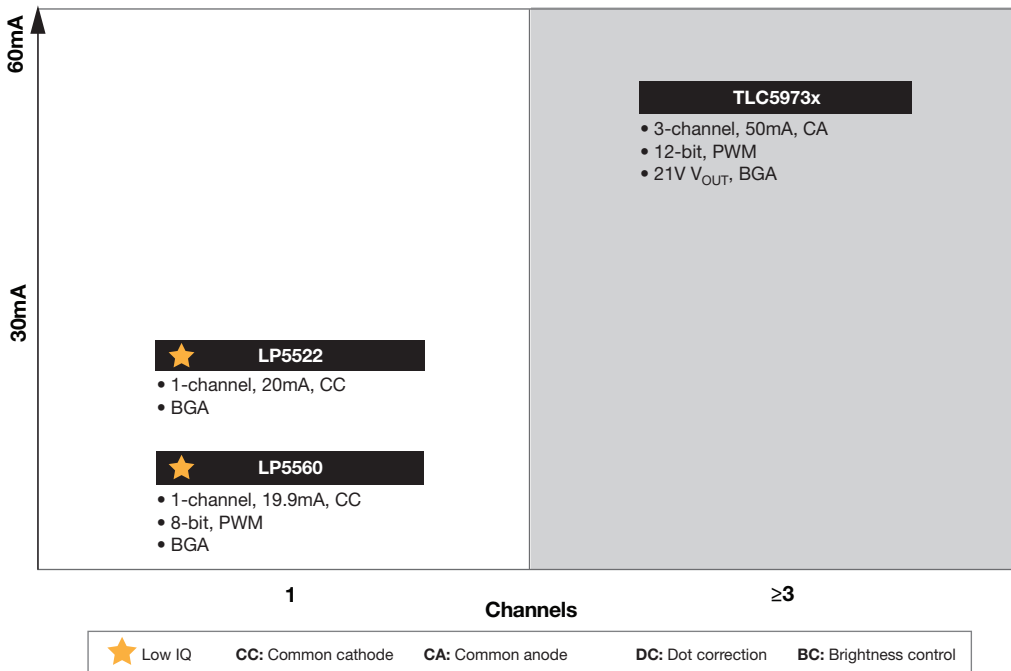
60mA	TLC5916/7 <ul style="list-style-type: none"> • ON/OFF • 120mA, 8-bit BC, LOD/LSD 	TLC5940/401 <ul style="list-style-type: none"> • 12-bit PWM • 120mA, 6-bit DC, LOD TLC5926/27 <ul style="list-style-type: none"> • ON/OFF • 120mA, 8-bit BC, LOD/LSD 		
	TLC5971/711 <ul style="list-style-type: none"> • 16-bit PWM • 60mA, 7-bit RGB BC • Internal OSC and selectable GS clock 	★ TLC5948A/482/49 <ul style="list-style-type: none"> • 12-bit PWM • 60/45mA, 7-bit BC, 7-bit DC • Full faults detection 		
	★ TLC6C598 <ul style="list-style-type: none"> • ON/OFF • 50mA, 40V VLED • Low power consumption 	TLC5946/461 <ul style="list-style-type: none"> • 12-bit PWM • 40mA, 6-bit DC, LDO 	TLC5951 <ul style="list-style-type: none"> • 12-bit PWM • 40mA, 7-bit BC, 7-bit DC, LOD/LSD 	TLC5954 <ul style="list-style-type: none"> • ON/OFF • 35mA, REF resistor not needed • 3-bit BC, 7-bit RGB CC, LOD/LSD
	★ TLC6C5912 <ul style="list-style-type: none"> • ON/OFF • 50mA, 40V VLED • Low power consumption 	★ ★ TLC5929/291 <ul style="list-style-type: none"> • ON/OFF • 50mA, 7-bit BC • Power save mode, full fault detection 	TLC5952 <ul style="list-style-type: none"> • ON/OFF • 35mA, 7-bit BC, LOD/LSD 	TLC5955 <ul style="list-style-type: none"> • 16-bit PWM • 32mA, REF resistor not needed • 3-bit BC, 7-bit RGB CC, 7-bit DC, LOD/LSD
30mA		★ TLC5928x <ul style="list-style-type: none"> • ON/OFF • 45mA, ghost removal 	TLC5947 <ul style="list-style-type: none"> • 12-bit PWM • 30mA, 30V VLED, int. OSC 	★ TLC59581/2 <ul style="list-style-type: none"> • 16-bit PWM • 25mA, 3-bit BC, 9-bit RGB CC • SRAM integrated • Ghost canceling/LGSE • Caterpillar removal
				★ TLC5957 <ul style="list-style-type: none"> • 16-bit PWM • 25mA, low knee voltage • 3-bit BC, 9-bit RGB CC • Ghost canceling/LGSE • Caterpillar removal
	8	12	16	24
	Channels			

★ Low IQ ★ LED signage support LOD: LED open detection LSD: LED short detection DC: Dot correction BC: Brightness control

I²C Interface



Single Wire Interface



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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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