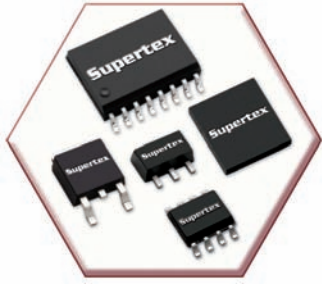


Supertex inc. LED Drivers



Supertex offers an extensive line of high-performance LED driver ICs for solid-state lighting applications, including general illumination, LCD screen backlighting, building, street, automotive, and decorative lighting. Our LED driver ICs range from simple, low-cost linear regulators to feature-rich switching regulators configured in buck, boost, buck-boost, and SEPIC topologies. These LED driver ICs offer high efficiency, excellent LED current matching, very low noise, and a wide dimming range. In addition, they have a very wide input voltage range and multiple output capabilities in the smallest footprints.

Features ▶

- DC to 450V input range
- PWM, linear, and phase dimming
- Low harmonic distortion
- Small size

Benefits ▶

- Supports universal AC
- Supports TRIAC-based phase dimming
- Power-factor correction
- Integrated protection features
- Minimum number of external components

Applications ▶

- Traffic signals
- Automotive lighting
- Backlighting for LCD displays
- Offline lamps and fixtures
- Street lighting

Product Specifications ▶

Part Number	Type	Dimming Type	Number of LEDs/ String	Number of Strings	Configuration	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Peak Efficiency (%)	Diagnostic Capabilities	Interface	Markets
AT9933	Cuk	PWM	Configurable	1	Series	9-75	Configurable	Ext. FET	>80	-	-	TR
HV9930		PWM	Configurable	1	Series	8-200	Configurable	Ext. FET	>80	-	-	CL BL SI
CL2	Linear	-	1-30	1	Series/parallel	5-90	5-90	20	-	-	-	CL
CL25		-	1-30	1	Series/parallel	5-90	5-90	25	-	-	-	CL
CL320		Ext. PWM	1-30	3	Series/parallel	5-90	4-90	20	-	-	Independent enable	CL BL
CL325		Ext. PWM	1-30	3	Series/parallel	5-90	4-90	25	-	-	Independent enable	CL BL
CL330		Ext. PWM	1-30	3	Series/parallel	5-90	4-90	35	-	-	Independent enable	CL BL
CL520		-	1-30	1	Series/parallel	4.75-90	1-90	20	-	-	-	CL BL
CL525		-	1-30	1	Series/parallel	4.75-90	1-90	25	-	-	-	CL BL
CL6		-	1-30	1	Series/parallel	6.5-90	90	100	-	-	-	CL
CL7		Ext. PWM	1-30	1	Series/parallel	6.5-90	4-90	100	-	-	EN	CL
HV9903		Boost	PWM/linear	1-8	1	Series	1.8-12.5	<35	5-40	>90	-	-
HV9910B	Buck	PWM/linear	Any	1	Series	8-450	<0.8* V _{IN}	Ext. FET	>90	-	-	CL BL SI
HV9919		PWM/linear	Any	1	Series	4.5-40	<0.8* V _{IN}	Ext. FET	>90	-	-	CL SI
HV9921		-	4-20	1	Series	20-400	12-80	20	>80	-	-	CL
HV9922		-	4-20	1	Series	20-400	12-80	50	>80	-	-	CL
HV9923		-	4-20	1	Series	20-400	12-80	30	>80	-	-	CL
HV9925		PWM	4-20	1	Series	20-400	12-80	20-50	>80	-	-	CL
HV9980		PWM/linear	Configurable	3	Series	20-200	Configurable	70	>85	-	-	CL BL SI
HV9911		Boost/buck/ SEPIC	PWM/linear	Configurable	1	Series	9-250	Configurable	Ext. FET	>90	-	-
HV9912	PWM/linear		Configurable	1	Series	9-100	Configurable	Ext. FET	>90	-	-	CL BL SI
HV9982	PWM/linear		Configurable	3	Series	10-40	Configurable	Ext. FET	>90	-	-	CL BL
HV9931	Buck-boost-buck	PWM/phase	1-50	1	Series	8-450	2-200	Ext. FET	>80	-	-	CL

MARKETS LEGEND

CL COMMERCIAL LIGHTING

FL FLASHLIGHTS

TR TRANSPORTATION

BL BACKLIGHTING

SI SIGNAGE