

Supertex inc. LED Drivers

Supertex was founded in 1976 and is a publicly-traded company specializing in high-voltage, mixed-signal ICs for driving LEDs, electroluminescent displays, and medical devices. The Supertex LED driver portfolio offers many diverse and innovative devices for applications requiring high-voltage solutions.

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	NA	NA	TR
HV9930		PWM	Configurable	1	Series	8-200	Configurable	Ext. FET	>80	NA	NA	CL BL SI
CL2	Linear	NA	1-30	1	Series/parallel	5-90	90	20	NA	NA	NA	CL
CL25		NA	1-30	1	Series/parallel	5-90	90	25	NA	NA	NA	CL
CL320		NA	Configurable	3	Series/parallel	5-90	90	20	NA	NA	NA	CL BL
CL325		NA	Configurable	3	Series/parallel	5-90	90	25	NA	NA	NA	CL BL
CL330		NA	Configurable	3	Series/parallel	5-90	90	30	NA	NA	NA	CL BL
CL6		NA	1-30	1	Series/parallel	6.5-90	90	100	NA	NA	NA	CL
CL7		PWM	1-30	1	Series/parallel	6.5-90	90	100	NA	NA	NA	CL
HV9903		Boost	PWM/linear	1-8	1	Series	1.8-12.5	<35	5-40	>90	NA	NA
HV9910B	Buck	PWM/linear	Any	1	Series	8-450	<0.8* V _{IN}	Ext. FET	>90	NA	NA	CL BL SI
HV9921		NA	4-20	1	Series	20-400	12-80	20	>80	NA	NA	CL
HV9922		NA	4-20	1	Series	20-400	12-80	50	>80	NA	NA	CL
HV9923		NA	4-20	1	Series	20-400	12-80	30	>80	NA	NA	CL
HV9925		PWM/linear	4-20	1	Series	20-400	12-80	20-50	>80	NA	NA	CL
HV9980		PWM/linear	Configurable	3	Series	100-160	Configurable	70	>85	NA	NA	CL BL SI
HV9911	Boost/SEPIC/ buck-boost	PWM/linear	Configurable	1	Series	9-250	Configurable	Ext. FET	>90	NA	NA	CL BL SI
HV9912		PWM/linear	Configurable	1	Series	9-100	Configurable	Ext. FET	>90	NA	NA	CL BL SI
HV9931	Buck/ buck-boost	PWM/phase	1-50	1	Series	8-450	2-200	Ext. FET	>80	NA	NA	CL
HV9982	Boost/buck/ SEPIC	PWM/linear	Configurable	3	Series	10-40	Configurable	Ext. FET	>90	NA	NA	CL BL SI

MARKETS LEGEND

CL COMMERCIAL LIGHTING

FL FLASHLIGHTS

TR TRANSPORTATION

BL BACKLIGHTING

SI SIGNAGE