

# Drivers and Power Supplies

RoHS Compliant This product is RoHS compliant.

## EXAR HIGH POWER LED DRIVERS

The Exar XRP7603, XRP7604, and SP7600 pin-compatible 29V non synchronous buck high power LED driver products are PWM step down converters with integrated high side FET optimized to drive high power LEDs at up to 1A or 2A of continuous current. Each Exar high power LED driver features a wide 4.5V to 29V input voltage range that allows for single supply operations from industry standard 5V, 12V, or 24V power rails. These Exar high power LED drivers offer 1.2 MHz constant operating frequency, which allows small external components selection. An internal type II control loop compensation reduces overall component count and solution footprint. For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Exar Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	25	100
701-XRP7603EDB-F	XRP7603EDB-F	HSOICN-8	High Power	Step-down	4.5 - 29V	Adj	500	PWM & Analog	6	94	Series	2.31	1.82	1.55
701-XRP7604EDB-F	XRP7604EDB-F	HSOICN-8	High Power	Step-down	4.5 - 29V	Adj	1A	PWM & Analog	6	94	Series	2.81	2.23	1.89
701-SP7600EN2-L/TR	SP7600EN2-L/TR	HSOICN-8	High Power	Step-down	4.5 - 29V	Adj	2A	PWM & Analog	6	94	Series	2.47	2.17	1.88

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												1	25	100
701-XRP6840AIBL-F	XRP6840AIBL-F	TQFN-20	Flash	Charge Pump	2.7 - 5.5	5.3	1450	-	3	90+	Parallel	2.18	1.92	1.80
701-XRP6840BILB-F	XRP6840BILB-F	TQFN-20	Flash	Charge Pump	2.7 - 5.5	5.3	1450	-	2	90+	Parallel	2.18	1.92	1.80
701-SP7121EK-L	SP7121EK-L	SOT-23	Universal	Linear	2.7 - 5.5	-	25	PWM	2	-	Parallel	.63	.477	.405
701-XRP7620IH-F	XRP7620IH-F	DFN-8	Universal	Current Driver	2.7 - 5.5	-	31	-	4	-	Parallel	1.98	1.56	1.33
701-XRP7618IGBT-R-F	XRP7618IGBT-R-F	TSSOP-20	Universal	Current Driver	4.2 - 5.5	30	100 p/ch	PWM, analog	8	-	Parallel	2.25	1.77	1.50
Description														
701-XRP7618EVB	XRP7618EVB	XRP7618 8-Channel Evaluation Board										33.30	-	-

## FAIRCHILD LED DRIVERS

MOUSER STOCK NO.	Fairchild Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	25	100
512-FAN5646S700X	FAN5646S700X	SC70-5	Universal	Blinker	2.7 - 5	-	20	Digital	1	-	-	1.06	.816	.72
512-FAN5646S701X	FAN5646S701X	SC70-5	Universal	Blinker	2.7 - 5	-	20	Digital	1	-	-	1.06	.816	.72
512-FAN5646UC00X	FAN5646UC00X	WL-CSP	Universal	Blinker	2.7 - 5	-	20	Digital	1	-	-	1.06	.816	.72
512-FAN5646UC01X	FAN5646UC01X	WL-CSP	Universal	Blinker	2.7 - 5	-	20	Digital	1	-	-	1.06	.816	.72
512-FAN102MY	FAN102MY	SOP-8	Universal	Linear	-0.3 to 7.0	-	5	PSR, PWM	1	75	-	.98	.771	.693
512-FL7930BM	FL7930BM	SOIC-8	Universal	---	-10 to 6.0	1.0 - 12.8	---	PSR, PWM	1	-	-	.84	.70	.56
512-FL7930CM	FL7930CM	SOIC-8	Universal	---	-10 to 6.0	1.0 - 12.8	---	PSR, PWM	1	-	-	.81	.68	.54
512-FAN5341UMPX	FAN5341UMPX	UMLP-6	Universal	Boost	2.7 to 5.5	-0.3 - 22	25	Digital	4	-	Series	1.34	1.15	.921
512-FAN5701UMP15X	FAN5701UMP15X	UMLP-16	Universal	Charge Pump	2.7 to 5.5	-	15	PWM	6	92	-	1.46	1.25	1.00
512-FAN5701UMP30X	FAN5701UMP30X	UMLP-16	Universal	Charge Pump	2.7 to 5.5	-	30	PWM	6	92	-	1.46	1.25	1.00
512-FAN5702UMP08X	FAN5702UMP08X	UMLP-16	Universal	Charge Pump	2.7 to 5.5	-	180	Digital	6	92	-	2.01	1.73	1.38

## FREESCALE LED BACKLIGHT DRIVERS W/ INTEGRATED POWER SUPPLY

MOUSER STOCK NO.	Freescale Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	25	100
841-MC34844EP	MC34844EP	QFN-EP 32	White	Boost	7 - 28	60	3 A	PWM	160	90	Parallel	4.47	4.02	3.66

## INFINEON LED DRIVERS & ACTIVE BIAS CONTROLLERS

MOUSER STOCK NO.	Infineon Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	10	100
726-BCR320UE6327	BCR320UE6327XT	SC-74-6	Universal	Linear	4.5 - 25	16	300	-	-	-	-	.40	.38	.367
726-BCR321UE6327	BCR321UE6327XT	SC-74-6	Universal	Linear	4.5 - 25	16	300	PWM	-	-	-	.40	.38	.367
726-BCR401RE6327	BCR401RE6327	SOT-143-4	Universal	Current	18 Max	Linear	10 - 60	-	-	-	Series	.51	.40	.277
726-BCR402UE6327	BCR402UE6327	SC-74-6	Universal	Current	18 Max	Linear	10 - 60	-	-	-	Series	.51	.402	.307
726-BCR405UE6327	BCR405UE6327	SC-74-6	Universal	Current	40 Max	Linear	10 - 65	-	-	-	Series	.58	.44	.312
726-BCR410WE6327	BCR410WE6327XT	SOT-343-4	Universal	Current	18 Max	-	0.5	-	-	-	-	.58	.413	.275
726-BCR420UE6327	BCR420UE6327XT	SC-74-6	Universal	Linear	4.5 - 40	38	200	-	-	-	Parallel	.40	.38	.367
726-BCR421UE6327	BCR421UE6327XT	SC-74-6	Universal	Linear	4.5 - 40	38	200	PWM	-	-	Parallel	.40	.38	.367
726-ILD4001E6327XT	ILD4001E6327XT	SC-74-6	Universal	Buck	40 Max	-	200	PWM, Analog	-	-	-	1.30	1.20	.95
726-ILD4035E6327XT	ILD4035E6327XT	SC-74-6	Universal	Buck	4.5 - 42	-	500	PWM, Analog	-	-	-	1.30	1.20	.95
726-ILD4120E6327XT	ILD4120E6327XT	DSO-8-27	Universal	Buck	40 Max	-	-	PWM, Analog	-	-	-	2.20	1.90	1.60
726-TLE42402M	TLE4240-2M	SCT-595-5	Universal	Con. Current	3.0 - 45	15	58	-	-	-	-	1.41	1.26	1.00

## NXP SEMICONDUCTOR LED DRIVERS

MOUSER STOCK NO.	NXP Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	25	100
771-SAA1064PN	SAA1064/N2,112	DIP-24	-	-	2.5	3.5	-	-	-	-	-	2.16	2.09	1.77
771-SAA1064TD	SAA1064T/N2,112	SO-24	-	-	2.5	3.5	-	-	-	-	-	2.79	2.25	2.02
771-PCA9626BS,518	PCA9626BS,518	HVQFN-48	Universal	2,3 - 5.5	40	100	PWM	24	-	-	Series/Parallel	4.76	3.82	3.48
771-PCA9527DP	PCA9626B,118	LQFP-48	Universal	2,3 - 5.5	40	100	PWM	24	-	-	Series/Parallel	4.14	3.34	2.78
771-PCA9624PW,118	PCA9624PW,118	TSSOP-24	Universal	2,3 - 5.5	40	100	PWM	8	-	-	Series/Parallel	1.60	1.43	1.11
771-PCA9622DR,118	PCA9622DR,118	TSSOP-32	Universal	2,3 - 5.5	40	100	PWM	16	-	-	Series/Parallel	2.43	1.96	1.63
771-PCA9922PW,118	PCA9922PW,118	TSSOP-16	Universal	2,3 - 5.5	40	Adj.	8	-	-	-	Series/Parallel	1.23	.98	.857
* 771-PCA9901DP,118	PCA9901DP,118	TSSOP-8	Universal	2,7 - 5.5	2.7 - 5.5	Adj.	1	-	-	-	Single	.84	.65	.567
** 771-SSL3250AHN/C1518	SSL3250AHN/C1,528	HVQFN-16	White	2.7 - 5.5	9.5	Adj.	Current Regulated SMPS	1	85	-	Series	1.75	1.38	1.24

\* LED sequence blinker, single wire serial interface \*\* Single or Dual photo flash LED driver, stand alone or I2C interface

## SUPERTEX HIGH VOLTAGE LED DRIVERS

MOUSER STOCK NO.	Supertex Part No.	Package	LED Type	Driver Type	Input Voltage (VDC)	Output Voltage (V)	Output Current (mA)	Dimming Type	Number of LEDs	Output Efficiency (%)	Configuration	Price Each		
												1	100	500
689-HV9910BLG-G	HV9910BLG-G	SOIC-8	Universal	Switching	9-250	Ext FET	Ext FET	PWM/Linear	Multiple	> 90	Series	1.35	.99	.95
689-HV9911NG-G	HV9911NG-G	SOIC-16	Universal	Switching	9 - 250	Ext FET	Ext FET	PWM/Linear	Multiple	> 90	Series	1.58	1.31	1.21
689-HV9921N3-G	HV9921N3-G	TO-92	Universal	Buck	20 - 400	12 - 80	20	N/A	4 - 20	> 80	Series	.78	.65	.60
689-HV9921N8-G	HV9921N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	20	N/A	4 - 20	> 80	Series	.82	.68	.63
689-HV9923N8-G	HV9923N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	30	N/A	4 - 20	> 80	Series	.84	.70	.64
689-HV9922N3-G	HV9922N3-G	TO-92	Universal	Buck	20 - 400	12 - 80	50	N/A	4 - 20	> 80	Series	.84	.70	.64
689-HV9922N8-G	HV9922N8-G	SOT-89	Universal	Buck	20 - 400	12 - 80	50	N/A	4 - 20	> 80	Series	.87	.73	.67
689-HV9925SG-G	HV9925SG-G	SOIC-8	Universal	Buck	20 - 400	12 - 80	20 - 50	PWM/Linear	4 - 20	> 80	Series	1.22	1.01	.93
689-HV9930LG-G	HV9930LG-G	SOIC-8	Universal	Boost/Buck	8 - 200	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.24	1.03	.95
689-HV9931LG-G	HV9931LG-G	SOIC-8	Universal	Boost/Buck	8 - 200	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.24	1.03	.95
689-HV9912NG-G	HV9912NG-G	SOIC-16	Universal	Switching	9 - 90	Ext FET	Ext FET	PWM/Linear	< 50	> 90	Series	1.66	1.50	1.33
689-HV9918K7-G	HV9918K7-G	DFN-8	Universal	Boost/Buck	4.5 - 40	Configurable	Ext FET	PWM	Configurable	> 80	Series	1.20	.98	.832
689-HV9916LG-G	HV9916LG-G	SOIC-16	Universal	Boost/Buck	8-200	Configurable	Ext FET	PWM	Configurable	> 80	Series	2.24	1.68	1.61
689-CL2K4-G	CL2K4-G	TO-252-3	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.70	.58	.54
689-CL2N3-G	CL2N3-G	TO-92	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.44	.36	.34
689-CL2N8-G	CL2N8-G	SOT-89	Universal	Linear	5 - 90	90	20	N/A	1 - 30	> 90	Series/Parallel	.49	.41	.38
689-CL6K4-G	CL6K4-G	TO-252	Universal	Linear	4 - 90	90	100	N/A	1 - 30	> 90	Series/Parallel	1.52	1.26	1.17
689-CL6N5-G	CL6N5-G	TO-220	Universal	Linear	4 - 90	90	100	N/A	1 - 30	> 90	Series/Parallel	1.62	1.34	1.24