

# LCD Drivers and Controllers

## SUPERTEX - EL BACKLIGHTING DRIVER INTEGRATED CIRCUITS AND DEMO BOARDS

### HV809 Features:

Input voltage up to 200V DC, 400V peak-to-peak output voltage, output load up to 350nF (100 in2 for 3.5nF/in2 lamp), adjustable output lamp frequency, adjustable On/Off pulsing frequency

### HV823 Features:

180V peak-to-peak output voltage, large output load capability, adjustable output lamp frequency adjustable converter frequency, enable/disable function low current draw under no load condition.

### HV826 Features:

1.8V to 3.5V operating supply voltage, adjustable output frequency, adjustable switch frequency, output voltage regulation, enable/disable function

### HV833 Features:

1.8V to 6.5V operating supply voltage, separately adjustable lamp and converter frequency, <100nA shutdown current, output voltage regulation, enable/disable function, output timing for high efficiency

### HV830 Features:

2.0V to 9.5V operating supply voltage, 200V peak-to-peak typical output voltage, large output load capability, permits the use of high-resistance elastomeric lamp connectors, adjustable output lamp frequency, adjustable converter frequency, enable/disable function, low current draw under no load condition, very low standby current

### HV850 Features:

Designed to drive EL lamps of up to 2.0in2, with capacitive values up to 4.5nF, no external components needed when using an external EL clock frequency, low noise and enable function

### HV857/HV857L Features:

Audible noise reduction, lamp aging compensation, wide input voltage range, 190V peak-to-peak output voltage, single cell lithium ion compatible, 150nA shutdown current, separately adjustable lamp and converter frequencies, output voltage regulation, split supply regulation

### ◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Supertex Part No.	Package	Input Voltage Range		Nominal Output Volt. Vcs (V)	High Volt. Supply Curr. Iin (Typ) (mA)	Max. Switch Resistance Rds(ON) Max (Ω)	Output Reg.	Driver	Maximum Lamp Size Per Driver (in <sup>2</sup> )	Price Each		
			Low (V)	High (V)							1	100	500
◆ 689-HV857MG-G	HV857MG-G	MSOP-8	1.8	5	±95	20	6	Yes	Single	5	1.20	1.00	.92
◆ 689-HV857LMG-G	HV857LMG-G	MSOP-8	1.8	5	±95	25	6	Yes	Single	5	1.20	1.00	.92
◆ 689-HV833MG-G	HV833MG-G	MSOP-8	1.8	6.5	±90	56	4	Yes	Single	12	1.69	1.41	1.30
◆ 689-HV823LG-G	HV823LG-G	SOIC-8(N)	2	9.5	±90	25	6	Yes	Single	23	2.05	1.70	1.57
◆ 689-HV830LG-G	HV830LG-G	SO-8	2	9.5	±100	35	4	Yes	Single	25	2.15	1.79	1.65
◆ 689-HV860K7-G	HV860K7-G	QFN-12	2.5	4.5	±110	16	6	Yes	Single	5	1.37	1.14	1.05

## MICROCHIP - 8-BIT LCD PIC MICROCONTROLLERS WITH ON-BOARD LCD DRIVER AND CAPACITIVE TOUCH

### ◆ Surface Mount Device



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Flash	SRAM	I/O	LCD Pixels	Price Each		
						1	25	100
◆ 579-PIC18F66J90-I/PT	PIC18F66J90-I/PT	64K	3923B	51	132	4.09	3.13	2.83
◆ 579-PIC18F67J90-I/PT	PIC18F67J90-I/PT	128K	3923B	51	132	4.48	3.43	3.10
◆ 579-PIC18F86J90-I/PT	PIC18F86J90-I/PT	64K	3923B	67	192	4.51	3.45	3.12
◆ 579-PIC18F87J90-I/PT	PIC18F87J90-I/PT	128K	3923B	67	192	4.93	3.76	3.41

### Development Tools

579-DM160211	DM160211	mTouch Projected Capacitive Touch Development Kit				119.99	-	-
579-DM163030	DM163030	PICDEM LCD 2				125.00	-	-
579-DM183026-2	DM183026-2	mTouch Capacitive Touch Evaluation Kit				99.95	-	-
579-AC183026	AC183026	Daughter Card & OEM Boards Metal over Cap Accessory Kit				49.99	-	-
579-MA180025	MA180025	Plug-in-Module with cap-touch				25.00	-	-

## MICROCHIP - MICRO-CONTROLLERS W/ INTEGRATED LCD DRIVER MODULES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Supply Voltage/Range	Supply Current	Package	Resolution	Operating Temperature Range	Mounting Type	Price Each			
								1	25	100	
<b>LCD Drivers</b>											
579-AY0438/P	AY0438/P	+ 8.5 V	60 mA	PDIP-40	-	0°C to + 70°C	4.20	3.50	3.06	2.78	
579-AY0438-I/L	AY0438-I/L	+ 8.5 V	60 mA	PLCC-44	-	- 40°C to + 85°C	6.02	5.02	4.55	4.13	
579-AY0438-I/P	AY0438-I/P	+ 8.5 V	60 mA	PDIP-40	-	- 40°C to + 85°C	4.39	3.66	3.21	2.92	

## TEXAS INSTRUMENTS - LCD EVALUATION MODULES & DEMONSTRATION KITS



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TI Part No.	Description	Price Each
595-TSC2008EVM	TSC2008EVM	Evaluation Module for TSC2008, a 1.2-3.6V, 12-Bit, 4-Wire Touch Screen Controller with I2C	50.00
595-TSC2020EVM	TSC2020EVM	Evaluation Module for TSC2020, a 1.2-3.6V, 12-Bit, 4-Wire Touch Screen Controller with I2C	76.50
595-TSC2020EVM-PDK	TSC2020EVM-PDK	Evaluation/Demonstration Kit for TSC2020, a 1.2-3.6V, 12-Bit, 4-Wire Touch Screen Controller with I2C	224.50

## TEXAS INSTRUMENTS - TOUCH SCREEN CONTROLLER

For use with selected Touch Screen Modules without controller on board.

\* With Audio Codec



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TI Part No.	Package	Touch Panel	Resolutions	Sample Rate	Supply Voltage	Inputs	Price Each		
								1	25	100
595-ADS7843E	ADS7843E	SSOP-16	4-Wire	8 or 12	125kHz	2.7-5V	2	4.18	3.80	2.64
595-ADS7845E	ADS7845E	SSOP-16	5-Wire	8 or 12	125kHz	5V	1	9.77	9.34	7.01
595-ADS7846E	ADS7846E	SSOP-16	4-Wire	12	125kHz	2.2-5.25V	2	6.02	5.50	4.40
595-ADS7846IRGVT	ADS7846IRGVT	QFN-16	4-Wire	12	125kHz	2.2-5.25V	2	6.96	5.69	4.81
595-TSC2000IPW	TSC2000IPW	TSSOP-20	4-Wire	8, 10 or 12	-	2.7-3.6V	4	6.27	5.84	5.27
595-TSC2003IPW	TSC2003IPW	TSSOP-16	4-Wire	12	50 kSPS	2.5V-5.25V	4	5.94	5.53	4.99
595-TSC2003IPWR	TSC2003IPWR	TSSOP-16	4-Wire	12	50 kSPS	2.5V-5.25V	2	6.22	5.00	4.55
595-TSC2005IYZLT	TSC2005IYZLT	WCSP-28	4-Wire	10 or 12	50kHz	1.6-3.6V	1	5.55	4.53	4.07
595-TSC2007IPWR	TSC2007IPWR	TSSOP-16	4-Wire	12	20kHz	1.2-3.6V	-	3.82	3.12	2.80
595-TSC2020IRTVT	TSC2020IRTVT	QFN-32	4-Wire	12	100 kSPS	1.6-3.6V	-	7.69	6.21	5.18
595-TSC2046EIPW	TSC2046EIPW	TSSOP-16	4-Wire	12	125kHz	2.2-5.25V	2	2.06	1.88	1.50
595-TSC2046IPWR	TSC2046IPWR	TSSOP-16	4-Wire	12	125kHz	2.2-5.25V	2	2.66	2.05	1.86
595-TSC2046IRGVR	TSC2046IRGVR	QFN-16	4-Wire	12	125kHz	2.2-5.25V	2	2.80	2.16	1.96
595-TSC2046IZQCR	TSC2046IZQCR	BGA MicroSTAR JR-48	4-Wire	12	125kHz	2.2-5.25V	2	2.91	2.24	2.03
595-TSC2100IDA	TSC2100IDA	TSSOP-32	4-Wire	12	125kHz	0.5V - 6V	2	8.14	7.58	6.84
595-TSC2100IRHB	TSC2100IRHB	QFN-32	4-Wire	12	125kHz	0.5V - 6V	2	8.14	7.58	6.84
595-TSC2101IRGZ	TSC2101IRGZ	QFN-48	4-Wire	12	125kHz	0.5V - 6V	2	9.90	9.22	8.32
* 595-TSC2301IPAGG4	TSC2301IPAGG4	TQFP-64	4-Wire	12	125kHz	2.7-3.6V	2	10.70	10.24	7.78