



CSTN Driver

Part Number	SSD1768	SSD1774	SSD1777	SSD1784	SSD1793	SSD1797	
Max. Display Size (Seg x Com)	96RGB x 96	104RGB x 80	98RGB x 68	132RGB x 160	132RGB x 160	130RGB x 132	
Max. no. of Colors	65K	65K	65K	65k	262k	262k/65k	
Supply Voltage	2.4 ~ 3.6V	2.4 ~ 3.6V	2.4 ~ 3.6V	2.4 ~ 3.6V	2.3 ~ 3.6V	2.4 ~ 3.6V	
Logic I/O Voltage	1.2 ~ VDD	1.65 ~ VDD	1.65 ~ VDD	1.2 ~ VDD	1.2 ~ VDD	1.65 ~ 1.95	
Max. LCD Voltage	16V	13.5V	13.5V	19V	40	30V	
Interface	8bit Parallel	7.7MHz 6800/8080	6800/8080	6800/8080	7.7MHz 6800/8080	6800/8080	6800/8080
	16bit Parallel	7.7MHz 6800/8080	6800/8080	6800/8080	6800/8080	6800/8080	6800/8080
	Serial Interface	15MHz 3 or 4 wires	3 or 4 wires	3 or 4 wires	15MHz 3 or 4 wires	3 or 4 wires	3 or 4 wires
	I2C	No	No	No	No	No	No
Features	Graphic RAM (bits)	96x96x16 = 147,456	104x81x16 = 134,784	98x68x16 = 106,624	132x160x16 = 337,920	132x162x18 = 384,912	132x130x18 = 308,880
	Build-in Booster Capacitor	No	Yes	Yes	No	No	No
	Build-in Divider Capacitor	Yes	Yes	Yes	No	No	No
	DC/DC Level	4 ~ 7X	3 ~ 6X	3 ~ 6X	4 ~ 8X	7 ~ 10X	5 ~ 8X
	Bias Ratio	1:5 ~ 1:10	1:4 ~ 1:10	1:4 ~ 1:8	1:7 ~ 1:14	1:7 ~ 1:14	1:7 ~ 1:14
	Partial Display	1/8 ~ 1/96	1/8 ~ 1/81	1/8 ~ 1/68	1/32 ~ 1/160	1/32 ~ 1/160	1/32 ~ 1/132
	Contrast Level	8 internal gain + 64 steps contrast adjustment	8 internal gain + 64 steps contrast adjustment	8 internal gain + 64 steps contrast adjustment	8 internal gain + 64 steps contrast adjustment	8 internal gain + 64 steps contrast adjustment	8 internal gain + 64 steps contrast adjustment
	Default Frame Frequency (Hz)	78	78	78	75	75	73.5
	Operation Temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85
	Advanced Features	Sleep Mode	Yes	Yes	Yes	Yes	Yes
N-Line Inversion	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Temperature Compensation	4 Setting	4 Setting	4 Setting	5 Setting	4 Setting	4 Setting	
On Chip OTP	Yes (2 x 5bit)	Yes (5bit)	Yes (5bit)	Yes (2 x 5bit)	MTP	MTP	
2D GIGA	Yes	Yes	Yes	Yes	Yes	Yes	
Grayscale Control	5 bits PWM + 1 bit FRC	5 bits PWM + 1 bits FRC	5 bits PWM + 1 bits FRC	5 bits PWM + 1 bit FRC	5 bits PWM + 1 bit FRC	5 bits PWM + 1 bit FRC	
Interlace COM Output Pin	No	Yes	Yes	Yes	Yes	Yes	
Chip Size (mmxmm)	12.174x1.672	13.4x1.52	10.99x1.223	15.917x2.08	14.49x0.95	11.62x0.753	
Pad Pitch	33	33	28	33	28	24	
Process um/Voltage	0.35u / +18V	0.35u / +18V	0.35u / +18V	0.35u / +18V	0.18u / 40V	0.18u / 32V	
Pin Package	COG	COG	COG	COG, COF	COG	COG	
Sample	Done	Done	Done	Done	Done	Done	
MP	Done	Done	Done	Done	Done	Done	

Note: 2D GIGA- 2D Graphic Imitation Graphic Acceleration Series