



2.0 BLOCK DIAGRAM & POWER SUPPLY



3.0 MECHANICAL SPECIFICATIONS & FEATURE

Item	Nominal Dimensions (mm)	Feature	
		Active Screen Size	2.8" Diagonal
Module Size (W*H*T)	50.0 × 69.2 × 2.55	Resolution	240 (RGB) × 320
Active Area (W*H)	43.2 × 57.6	View Angle	6 O'clock
Dot × Dot (W*H)	240 (RGB) × 320	Pixel Driving Element	α-si TFT
Dot Pitch (W*H)	---	Pixel Arrangement	RGB Vertical Stripe
Dot Size (W*H)	0.180 × 0.180	Driving IC	IL19341
---	---	Operating Temperature	-20° C to +70° C
---	---	Storage Temperature	-30° C to +80° C

4.0 ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Supply Voltage	VDD1 (10VCC)	Based On IL19341 Ta=25° C	1.65	---	3.3	V
Analog Supply Voltage	VCI	Based On IL19341 Ta=25° C	2.5	---	4.8	V
Supply Voltage & Analog Supply Voltage	VDD1 (10VCC) & VCI	Based On IL19341 Ta=25° C	2.5	---	3.3	V
TFT Gate ON Voltage	VGH	Based On IL19341 Ta=25° C	9.0	15.0	16.5	V
TFT Gate Off Voltage	VGL	Based On IL19341 Ta=25° C	-6.0	-10.0	-13.5	V
TFT Common Electrode Voltage	VcomH	Based On IL19341 Ta=25° C	2.5	---	5.8	V
	VcomL	Based On IL19341 Ta=25° C	-2.5	---	0	V

5.0 INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Level	Description
1-4	DB1-DB4	H/L	Data Bus DB1-DB4 Input Terminal
5	VSS	0V	LCM Power Supply Ground Input Terminal
6	10VCC		LCM Power Supply (Logi Voltage) Input Terminal
7	/CS	L	LCM selection pin for serial interface; internal pull high
8	RS	H/L	LCM Data/Command Selection Terminal
9	/WR	L	LCM Write Signal Input Terminal
10	/RD	L	LCM Read Signal Input Terminal
11	NC		Not Connected
12	X+ (XR)		Touchpanel X_right Input Terminal
13	Y+ (YU)		Touchpanel Y_up Input Terminal
14	X- (XL)		Touchpanel X_left Input Terminal
15	Y- (YD)		Touchpanel Y_Down Input terminal
16	A (LED+)	3.2V (Type)	LED Backlight Anode Input Terminal
17	LED-K1	0V	LED Backlight Kathode1 Input Terminal
18	LED-K2	0V	LED Backlight Kathode2 Input Terminal
19	LED-K3	0V	LED Backlight Kathode3 Input Terminal
20	LED-K4	0V	LED Backlight Kathode4 Input Terminal
21	NC		Not Connected
22	DB5		Data Bus DB5 Input Terminal
23-30	DB10-DB17		Data Bus DB10-DB17 Input Terminal
31	RESET	H→L, H	LCM reset pin. internal pull high. connected to VDD when not used
32	VCI		LCM Power Supply (Analog voltage) Input Terminal
33	10VCC		LCM Power Supply (Digital Voltage) Input Terminal
34	VSS	0V	LCM Power Supply Ground Input Terminal
35-37	DB6-DB8		Data Bus DB6-DB8 Input Terminal