

4.3 inch TFT LCD



PROFILE

- Type: IPS TFT/Normal Black
- Display format: 800(RGB)×480
- Controller IC: ST7282 (or equivalent)
- Interface: RGB 24bit
- +3.3V power supply
- With capacitive touch panel

FEATURES

NO.	ITEM	SPECIFICATION	UNIT
1	Panel Size	4.3	inch
2	Outline Dimension	105.5(W) x 67.2(H) x 4.8(T)	mm
3	Viewing Area	96.7 x 55.5	mm
4	Active Area	95.04 x 53.87	mm
5	Number of Pixels	800(H) × 3(RGB) × 480(V)	pixels
6	Pixel Pitch	0.108(W) × 0.108(H)	mm
7	Pixel arrangement	RGB vertical stripe	-
8	Display Mode	Normal Black	-
9	Viewing Direction	All (IPS)	-
10	Display Color	16.7M	-
11	Luminance(cd/m2)	600(TYP.)	nit
12	Contrast Ratio	400(TYP.)	-
13	Surface Treatment	Anti-Glare	-
14	Interface	24bit-RGB	-
15	Backlight	White LED	-
16	Drive IC	ST7282	-
17	Controller For CTP	GT911	
18	Operation Temperature	-20~70	°C
19	Storage Temperature	-30~80	°C

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	105.5 x 67.2	mm
Viewing Area	96.7 x 55.5	
Active Area	95.04 x 53.87	
Pixel Pitch	0.108 × 0.108	
Height	4.8	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage	VDD	-0.3	3.3	4.0	V
Logical Supply Voltage	VDDIO	1.8	-	3.6	

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN	TYP	MAX	
Logical Supply Voltage	VDDIO	Ta =25℃	1.8	-	3.6	V
Supply Voltage	VDD		-0.3	3.3	4.0	
LED Forward Voltage	Vf	Ta =25℃	-	15.5	-	V
LED Forward Current	If		-	40	-	mA

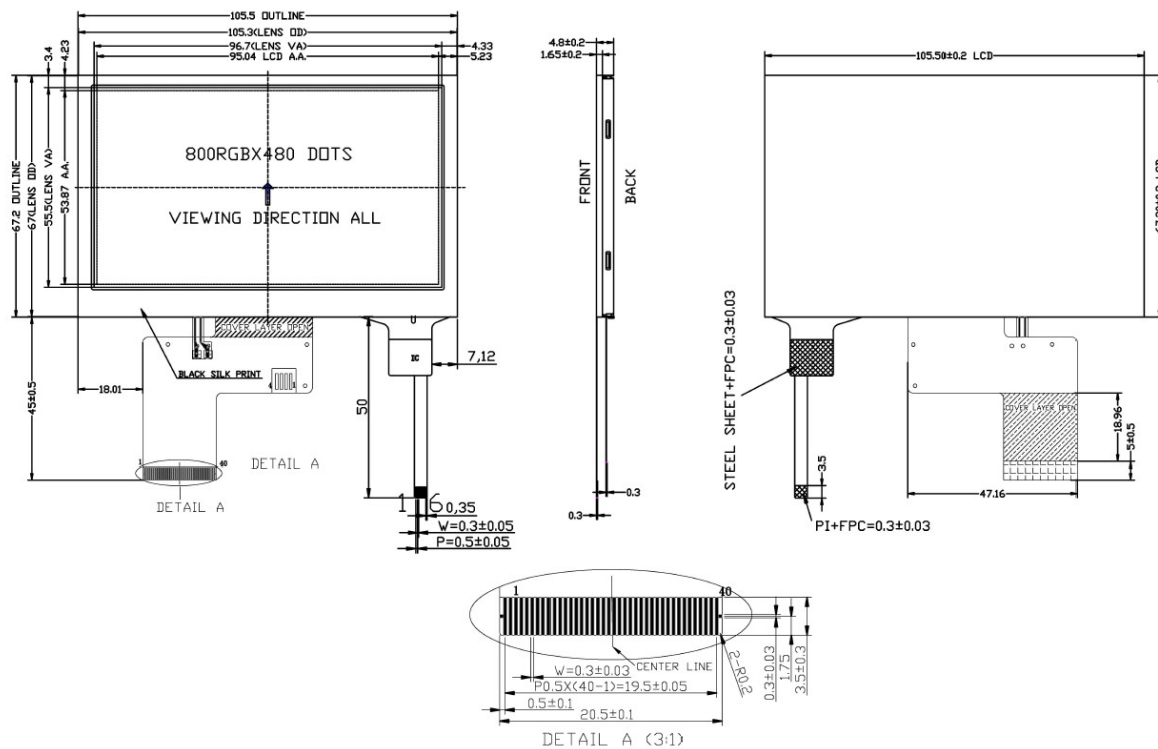
For detailed information, please refer to the “Product Numbering System” document.

PIN DESCRIPTION FOR LCD PANEL			
NO.	SYMBOL	I/O	FUNCTION
1	LED(-)	P	Power for LED backlight cathode
2	LED(+)	P	Power for LED backlight anode
3	GND	P	Power ground
4	VCC	P	Power voltage
5	R0	I	Red data (LSB)
6	R1	I	Red data
7	R2	I	Red data
8	R3	I	Red data
9	R4	I	Red data
10	R5	I	Red data
11	R6	I	Red data
12	R7	I	Red data (MSB)
13	G0	I	Green data (LSB)
14	G1	I	Green data
15	G2	I	Green data
16	G3	I	Green data
17	G4	I	Green data
18	G5	I	Green data
19	G6	I	Green data
20	G7	I	Green data (MSB)
21	B0	I	Blue data (LSB)
22	B1	I	Blue data
23	B2	I	Blue data

24	B3	I	Blue data
25	B4	I	Blue data
26	B5	I	Blue data
27	B6	I	Blue data
28	B7	I	Blue data (MSB)
29	GND	P	Power ground
30	DCLK	I	Pixel clock
31	DISP	I	Display on/ off
32	HSYNC	I	Horizontal sync signal
33	VSYNC	I	Vertical sync signal
34	DE	I	Data enable
35	NC	-	No connection
36	GND	P	Power ground
37	X1	I/O	Right electrode - differential analog
38	Y1	I/O	Bottom electrode - differential analog
39	X2	I/O	Left electrode - differential analog
40	Y2	I/O	Top electrode - differential analog

I/O: I: input, O: output, P: power

PIN DESCRIPTION FOR CAPACITIVE TOUCH PANEL			
NO.	SYMBOL	I/O	FUNCTION
1	GND	P	Power ground
2	SCL	P	Serial clock For CTP
3	SDA	P	Serial data input/output For CTP
4	INT	P	Interrupt signal For CTP
5	RESET	I	Reset input signal For CTP
6	VCC	P	Power voltage For CTP

DIMENSIONS in millimeters


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