

TFT DISPLAY SPECIFICATION



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SPECIFICATION

MODULE NO.: WF70A2SIAGDNL0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGB x 480 (TFT)	dots
Module dimension	165 x 100.0x 8.15	mm
Active area	154.08 x 85.92	mm
Pixel Pitch	0.1926 X 0.179	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	16:9	
Backlight Type	LED ,Normally White	
TFT Interface	24-bit RGB	
Color arrangement	RGB-STRIFE	
TFT Driver IC	ST5623D + ST5091D or equivalent	
Support touch point	Contact : five-finger Hover : One-finger , Hover high : 10mm	
PCAP Active Area	145.22mm*77.19mm (Lens va One-sided retraction 5mm)	
PCAP IC	MXT874U or equivalent	
PCAP Interface	I2C	
PCAP FW Version	0x8CAB7A	
PCAP Resolution	800*480	
Touch Panel	PCAP	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For Logic	VCC	3.0	3.3	3.6	V
Supply CTP	VDDT	3.0	3.3	3.6	V
	ICTP	—	15	25	mA
Power voltage	AVDD	10.2	10.4	10.6	V
Power Supply For Current	VCC =3.3V	-	7.5	15	mA
Power voltage	VGH	14.5	15.0	15.5	V
Power voltage	VGL	-10.5	-10	-9.5	V
Input signal voltage	VCOM	3.54	4.04	4.54	V
Power AVDD For Current	IADD	-	25	-	mA
Power VGH For Current	IGH	-	0.2	-	mA
Power VGL For Current	IGL	-	0.2	-	mA
Power VCOM For Current	ICOM	-	0.7	-	mA

Interface

LCM PIN Definition

Pin	Symbol	Function
1	LED+	Power supply for backlight
2	LED+	Power supply for backlight
3	LED-	Backlight ground
4	LED-	Backlight ground
5	GND	Power ground
6	VCOM	Common voltage
7	VCC	Power for Digital Circuit
8	MODE	DE/SYNC mode select
9	DE	Data Input Enable (DEN)
10	VS	Vertical Sync Input (VSD)
11	HS	Horizontal Sync Input (HSD)
12	B7	Blue data(MSB)
13	B6	Blue data
14	B5	Blue data
15	B4	Blue data
16	B3	Blue data
17	B2	Blue data
18	B1	Blue data
19	B0	Blue data(LSB)
20	G7	Green data(MSB)
21	G6	Green data
22	G5	Green data
23	G4	Green data
24	G3	Green data
25	G2	Green data
26	G1	Green data
27	G0	Green data(LSB)
28	R7	Red data(MSB)
29	R6	Red data
30	R5	Red data
31	R4	Red data

32	R3	Red data
33	R2	Red data
34	R1	Red data
35	R0	Red data(LSB)
36	GND	Power Ground
37	DCLK	Sample clock (CLK)
38	GND	Power Ground
39	L/R	Left / right selection
40	U/D	Up/down selection
41	VGH	Gate ON Voltage
42	VGL	Gate OFF Voltage
43	AVDD	Power for Analog Circuit
44	RESET	Global reset pin.
45	NC	No connection
46	VCOM	Common Voltage
47	DITHB	Dithering function
48	GND	Power Ground
49	NC	No connection
50	NC	No connection

2. CTP PIN Definition

Pin	Symbol	Function
1	VSS	Ground for analog circuit
2	VDDT	Power Supply : +3.3V
3	SCL	I2C clock input
4	NC	No connect
5	SDA	I2C data input and output
6	NC	No connect
7	RST	External Reset, Low is active
8	NC	No connect
9	INT	External interrupt to the host
10	VSS	Ground for analog circuit

Contour Drawing

