

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF70B6SWAGLNN0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGB x 480(TFT)	dots
Module dimension	169.8 (W) x 109.7 (H) x 10.0 (D)	mm
Active area	152.40 x 91.44	mm
Pixel pitch	0.1905 x 0.1905	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
TFT Interface	LVDS	
TFT Driver IC	HX8249-A + HX8678-C or Equivalent	
Aspect Ratio	15:9	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Electrical Characteristics

1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	VDD	2.7	3.3	3.6	V
Current of power supply	IDD	—	133	200	mA

2. LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	2*110	—	mA
LED voltage	VLED+	18.9	21.0	23.8	V
LED Life Time	—	—	100,000	—	Hr

Interface

1. LCM PIN Definition(CN1)

Pin	Symbol	Function									
1	VDD	Power voltage									
2	VDD	Power voltage									
3	GND(DISP)	Power Ground									
4	GND	Power Ground									
5	LINK0-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
6	LINK0+										
7	GND	Power Ground									
8	LINK1-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
9	LINK1+										
10	GND	Power Ground									
11	LINK2-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
12	LINK2+										
13	GND	Power Ground									
14	CLKIN-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
15	CLKIN+										
16	GND	Power Ground									
17	LINK3-	Input pins without termination resistor for LVDS mode. Keep these pins floating or connect to VSS1 if not used.									
18	LINK3+										
19	MODE	Input data format selection. Effective when FCS=1. <table border="1"> <thead> <tr> <th>MODE</th><th>Function</th><th>Note</th></tr> </thead> <tbody> <tr> <td>1</td><td>8-bit</td><td>Default</td></tr> <tr> <td>0</td><td>6-bit</td><td>-</td></tr> </tbody> </table>	MODE	Function	Note	1	8-bit	Default	0	6-bit	-
MODE	Function	Note									
1	8-bit	Default									
0	6-bit	-									
20	SC	Scan direction selector (Low: Normal ;High: Reverse)									

2. Backlight PIN Definition(CN2)

Pin	Symbol	Description
1-2	NC	No connection
3	VLED1-	VLED1_ Cathode
4	VLED1+	VLED1_ Anode
5	VLED2+	VLED2_ Anode
6	VLED2-	VLED2_ Cathode

Contour Drawing

