

# TFT DISPLAY SPECIFICATION



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



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### SPECIFICATION

**MODULE NO.: WF0840ATWAMLNNO#**

### General Specifications

Item	Dimension	Unit
Screen Diagonal	8.4	inch
Number of Pixels	1024 × 3(BGR) × 768	dots
Module dimension	199.5 × 149.0 × 11.5	mm
Active area	170.8032 (H) × 128.1024(V)	mm
Pixel pitch	0.1668 × 0.1668	mm
Display Mode	Normally Black , Transmissive	
Viewing Angle	80/80/80/80	
TFT Drive IC	ST5821AH+ST5084AA or Equivalent	
TFT Interface	LVDS	
Backlight Type	LED, Normally White	
Aspect Ratio	4:3	
Side screw torque	Typ:0.9 Max:1.3 (Unit,Kgf-cm)	
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

Operating conditions:

Item	Symbol	Min	Typ	Max	Unit	
Supply Voltage For Logic	$V_{DD}$	3.0	3.3	3.6	V	
Power Supply For Current	$V_{DD}=3.3V$	—	330	495	mA	
Input Voltage	H level	$V_{IH}$	$0.7V_{DD}$	—	$V_{DD}$	V
	L Level	$V_{IL}$	GND	—	$0.3V_{DD}$	V

# Interface

## LCM PIN Definition

Pin No.	Symbol	Function	Remark
1	VDD	Power supply	
2	VDD	Power supply	
3	GND	Ground	
4	GND	Ground	
5	Link0-	0- LVDS differential data input ( <b>D0N</b> )	
6	Link0+	0+ LVDS differential data input ( <b>D0P</b> )	
7	GND	Ground	
8	Link1-	1- LVDS differential data input ( <b>D1N</b> )	
9	Link1+	1+ LVDS differential data input ( <b>D1P</b> )	
10	GND	Ground	
11	Link2-	2- LVDS differential data input ( <b>D2N</b> )	
12	Link2+	2+ LVDS differential data input ( <b>D2P</b> )	
13	GND	Ground	
14	CLKIN-	- LVDS differential clock input ( <b>CLKN</b> )	
15	CLKIN+	+ LVDS differential clock input ( <b>CLKP</b> )	
16	GND	Ground	
17	Link3-	3- LVDS differential data input ( <b>D3N</b> )	
18	Link3+	3+ LVDS differential data input ( <b>D3P</b> )	
19	MODE	Bit 6/8:Low(6 Bit);High(8 Bit)	
20	SC	Scan direction selector (Low: Normal ;High: Reverse)	

## CN2

Pin No.	Symbol	Function	Remark
1	NC	No connection	
2	NC	No connection	
3	LED C1	LED_ Cathode 1	
4	LED A1	LED_ Anode 1	
5	LED A2	LED_ Anode 2	
6	LED C2	LED_ Cathode 2	

# Contour Drawing



