

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF39DTLFSDHG0#

General Specifications

Item	Dimension	Unit
Size	3.9	inch
Dot Matrix	480 x 128 x RGB	dots
Module dimension	125.0 x 66.5 x 13.95 (Max)	mm
Active area	95.04 x 25.34	mm
Pixel pitch	0.198(H) x 0.198(V) mm	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	6 o'clock	
Gray Scale Inversion Direction	12 o'clock	
Aspect Ratio	Bar Type	
Backlight Type	LED, Normally White	
Controller IC	TFP401	
Interface	HDMI (only for DVI)	
PCAP IC	GT911	
PCAP FW Version	77	
PCAP Interface	USB	
PCAP Resolution	480*128	
Touch Panel	Projected Capacitive 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	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	—	5	—	V
Supply Current For LCM	IDD	—	—	300	450	mA
LED life time	—	—	50,000	—	—	Hr

Interface

1. LCM PIN Definition DVI

Pin No.	Symbol	I/O	Function
1	Rx2+	I	Channel-2 positive receiver input; low-voltage signal differential- input pair.
2	GND	P	Ground
3	Rx2-	I	Channel-2 negative receiver input; low-voltage signal differential- input pair.
4	Rx1+	I	Channel-1 positive receiver input; low-voltage signal differential- input pair.
5	GND	P	Ground
6	Rx1-	I	Channel-1 negative receiver input; low-voltage signal differential- input pair.
7	Rx0+	I	Channel-0 positive receiver input; low-voltage signal differential- input pair.
8	GND	P	Ground
9	Rx0-	I	Channel-0 negative receiver input; low-voltage signal differential- input pair.
10	RxC+	I	Clock positive receiver input; low-voltage signal differential- input pair.
11	GND	P	Ground
12	RxC-	I	Clock negative receiver input; low-voltage signal differential- input pair.
13-16	NC	-	No connection
17	GND	P	Ground
18	5V	-	Power Supply
19	Detect	-	Hot plug detect

I: input, O: output, P: Power

Note 1: Only supports Raspberry Pi series

2. PW (Micro USB type B)

Pin No.	Symbol	I/O	Function
1	5V	P	Power Supply
2	NC	-	No connection
3	NC	-	No connection
4	NC	-	No connection
5	GND	P	Ground

3. CTP USB (Micro USB type B)

Pin No.	Symbol	I/O	Function
1	5V	P	Power Supply
2	D-	-	Data line -
3	D+	-	Data line +
4	NC	-	No connection
5	GND	P	Ground

Contour Drawing

