

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

MODULE NO.: WF24HTLAJDNN0#

General Specifications

Item	Dimension	Unit
Size	2.4"	
Dot Matrix	240 x RGB x 320(TFT)	dots
Module dimension	42.72(W) x 60.26(H) x 2.25(D)	mm
Active area	36.72 x 48.96	mm
Dot pitch	0.051 x 0.153	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	6 o'clock	
Gray Scale Inversion Direction	12 o'clock	
Aspect Ratio	Portrait	
Control IC	ILI9341V or Equivalent	
Interface	8-bit/16-bit CPU (build in controller)	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
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 Analog	VCC	—	2.4		3.3	V
Supply Voltage For Logic	VCCIO		1.65		3.3	V
Supply Current For LCM	ICC	—	—	5	7.5	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current		-	80	-	mA
Power Consumption		-	256	-	mW
LED voltage	VBL+	2.8	3.1	3.3	V
LED Life Time		50,000	-	-	Hr

Interface

1. LCM PIN Definition

NO	Symbol	Function	I/O
1	GND	Ground	P
2-5	NC	No connect	-
6	LCD_ID	No connect	-
7	VCC	power supply(TYP:2.8V).	P
8	IOVCC	power supply(TYP:1.8V/2.8V).	P
9	FMARK	Synchronies MCU to frame rate	O
10	CS	Chip select signal.	I
11	RS	register select	I
12	WR	Write data when WRX is Low.	I
13	RD	Read strobe signal. Read out data when RDX is Low.	I
14-29	DB0- DB15	Data bus	I/O
30	RESET	System reset pin.	I
31	IM0	Data interface select IM0= IOVCC 16Bit DB0-DB15 IM0= GND 8Bit DB0-DB7	I
32	NC	No connect	-
33	GND	Ground	P
34-37	LEDK1-K4	Cathode of LED backlight.	P
38	LEDA	Anode of LED backlight.	P
39	GND	Ground	P

Contour Drawing

