

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.: WF101JSYJHLNB0#

General Specifications

Item	Dimension	Unit
Size	10.1	inch
Dot Matrix	1024 RGB X 600	dots
Module dimension	235(W) x 143(H) x 22.43(D)	mm
Active area	222.72 (H) x 125.28(V)	mm
Pixel pitch	0.2175(W) x 0.2088(H)	mm
LCD type	TFT, Normally Black, Transmissive	
Interface	LVDS	
Driver IC	EK79001HN + EK73215BCGA or equivalent	
Viewing Angle	85/85/85/85	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
PCAP IC	ILI2511 or Equivalent	
PCAP Interface	USB (I2C available)	
PACP FW Version:	V6.0.0.0.62.90.1.2	
Touch Panel	With PCAP	
Surface	Glare	

Absolute Maximum Ratings

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

Electrical Characteristics

1. Typical Operation Conditions (At Ta = 25 °C)

Item	Symbol	Min	Typ	Max	Unit	Note
Supply Voltage For LCM +12V	DC12V	—	12.0	—	V	-
Supply Current For LCM +12V	I _{DC12V}	—	650	980	mA	-
Supply Voltage For PCAP(I2C)	DC3V	3.15	3.3	3.45	V	I2C Type
Supply Current For PCAP (I2C)	I _{DC3V}	—	80	120	mA	
Supply PCAP	USB_DC 5V	4.75	5.0	5.25	V	USB type
	I _{USB_DC 5V}	—	100	100	mA	

2. Backlight Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
PWM Control Level (LED_PWM)	High Level	—	3.3	—	V
	Low Level	—	0	—	V
PWM Control Duty Ratio	-	1	—	100	%
PWM Control Frequency	-	—	10K	—	Hz
LED Life Time	-	50,000	—	—	Hr

Interface

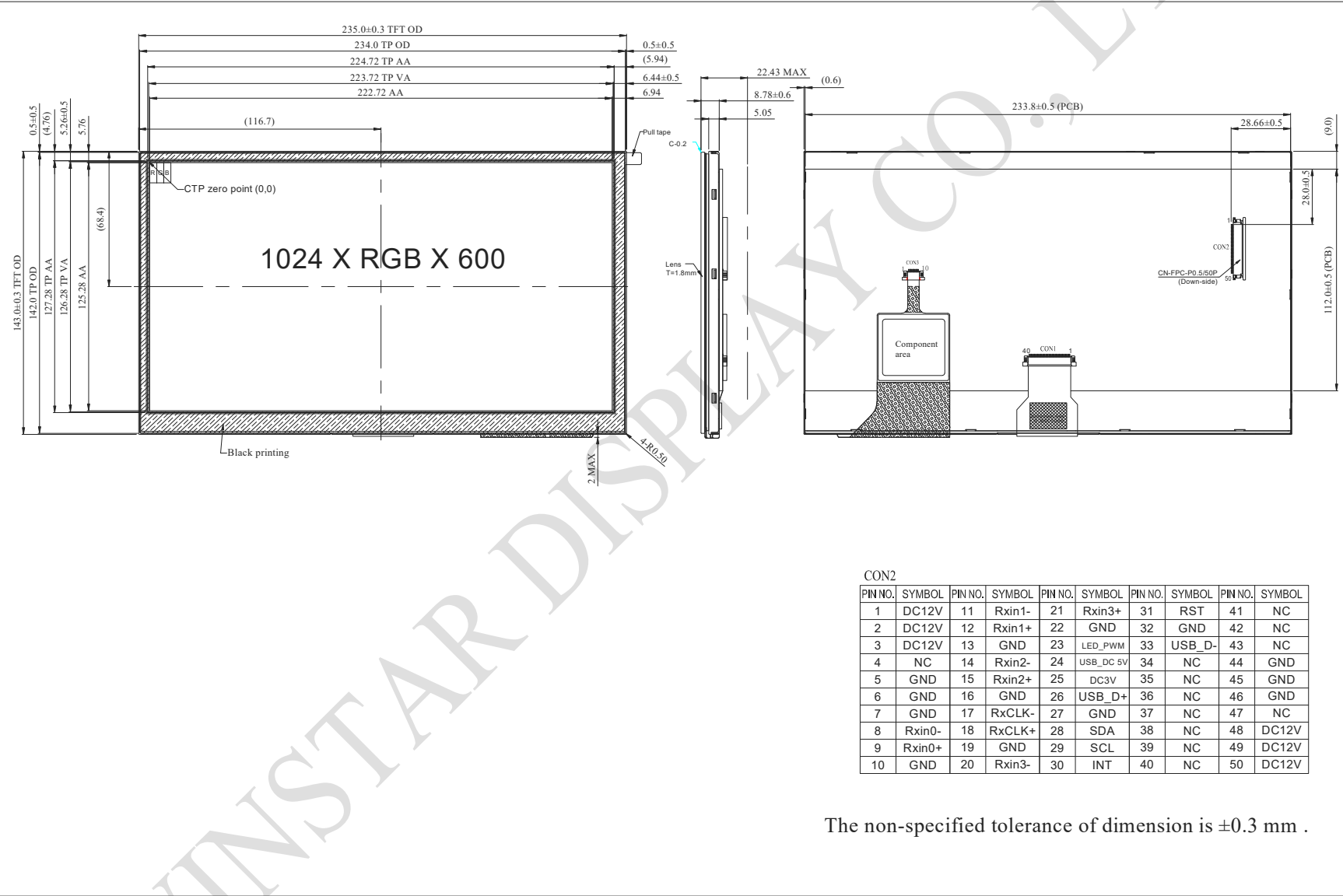
TFT LCD MODULE

Pin No.	Symbol	Description
1-3	DC12V	Digital power
4	NC	No connection
5-7	GND	Digital ground
8	Rxin0-	Negative LVDS differential data inputs
9	Rxin0+	Positive LVDS differential data inputs
10	GND	Digital ground
11	Rxin1-	Negative LVDS differential data inputs
12	Rxin1+	Positive LVDS differential data inputs
13	GND	Digital ground
14	Rxin2-	Negative LVDS differential data inputs
15	Rxin2+	Positive LVDS differential data inputs
16	GND	Digital ground
17	RxCLK-	Negative LVDS differential clock inputs
18	RxCLK+	Positive LVDS differential clock inputs
19	GND	Digital ground
20	Rxin3-	Negative LVDS differential data inputs
21	Rxin3+	Positive LVDS differential data inputs
22	GND	Digital ground
23	LED_PWM	Backlight control signal
24	USB_DC5V	Power supply for PCAP (USB type)
25	DC3V	Power supply for PCAP (I2C Type)
26	USB_D+	Data + (PCAP)
27	GND	Digital ground
28	SDA	I2C data input and output (PCAP)
29	SCL	I2C clock input (PCAP)
30	INT	External interrupt to the host (PCAP)
31	RST	External Reset, Low is active (PCAP)
32	GND	Digital ground
33	USB_D-	Data - (PCAP)
34-43	NC	No connection

44-46	GND	Digital ground
47	NC	No connection
48-50	DC12V	Digital power

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Contour Drawing



The non-specified tolerance of dimension is ± 0.3 mm .