

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



Winstar Display Co., LTD

華凌光電股份有限公司



WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw

SPECIFICATION

MODULE NO.: WF70A8TYFHLHGE#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	1024 x RGB x 600(TFT)	dots
Module dimension	169.9(W) x 103.4(H) x 23.9 (D)	mm
Active area	154.2144 x 85.92	mm
Pixel pitch	0.1506 x 0.1432	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	85/85/85/85	
Aspect Ratio	16:9	
Controller IC	LT6911C or equivalent	
Backlight Type	LED, Normally White	
TFT Interface	DVI	
CTP IC	ILI2130 or Equivalent	
CTP Interface	USB	
CTP FW Version	0x07.0x00.0x00.0x00.0x65.0x90.0x00.0x01	
CTP Resolution	16384*16384	
Touch Panel	Projected Capacitive 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	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	4.9	5	5.1	V
Supply Current For LCM	IDD	—	1470	2205	mA
LED life time	—	50,000	—	—	Hr

Backlight conditions:

Parameter	Symbol	Min.	Typ.	Max.	Unit
PWM Control Level (Backlight PWM)	High Level	-	3.3	-	V
	Low Level	-	0	-	V
PWM Control Frequency	-	-	1K	-	Hz

Interface

1. USB

Pin No	Symbol	Function
A1	GND	Power Ground
A4	NC	No connection
A5	NC	No connection
A6	D+	Data line +
A7	D-	Data line -
A8	NC	No connection
A9	NC	No connection
A12	GND	Power Ground
B12	GND	Power Ground
B9	NC	No connection
B8	NC	No connection
B7	D-	Data line -
B6	D+	Data line +
B5	NC	No connection
B4	NC	No connection
B1	GND	Power Ground

2. POWER JACK

Pin No.	Symbol	Function
1	5V	Power Supply (5V)
2	GND	Ground
3	NC	No connection

3. B/L dimming

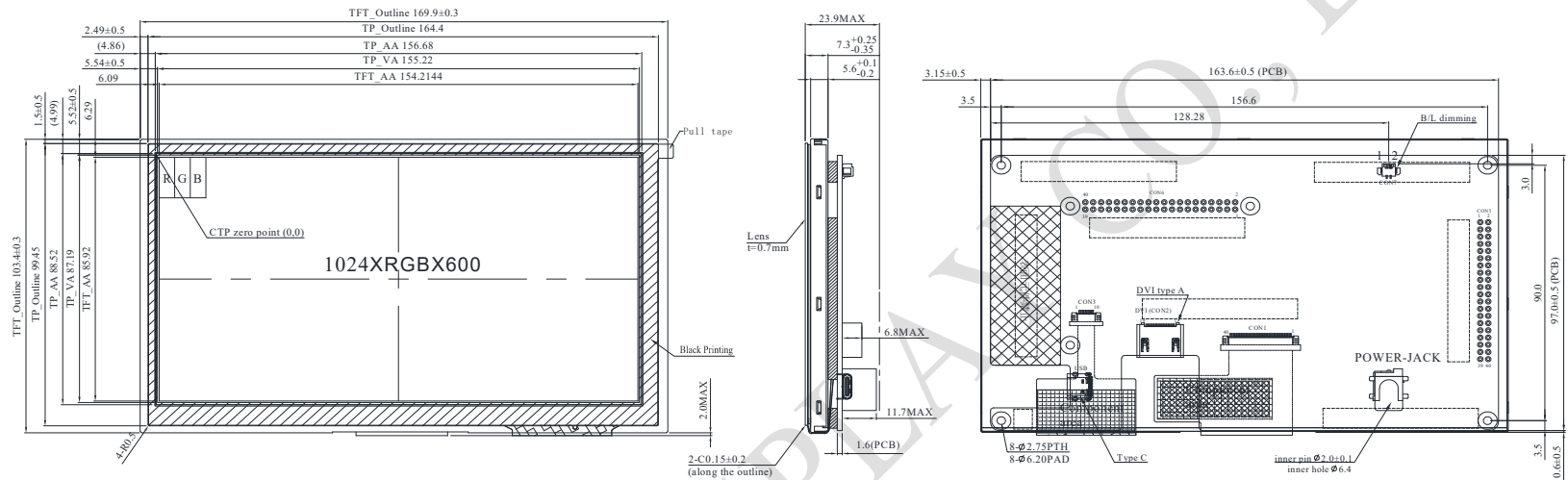
Pin No.	Symbol	Function
1	PWM	Light Dimming Control (PWM) Input Voltage (bright in 0% & dark in 100%)
2	GND	Ground

4. 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.
13-14	NC	-	No connection
15	SCL	I/O	DDC(Data Display Channel) Clock
16	SDA	I/O	DDC(Data Display Channel) Data
17	GND	P	Ground
18	5V	P	Power Supply
19	Detect	I/O	Hot plug detect

I: input, O: output, P: Power

Contour Drawing



POWER JACK

PIN NO.	SYMBOL
1	5V
2	GND
3	NC

2 — 1
(GND) (5V)

B/L dimming

PIN NO.	SYMBOL
1	PWM
2	GND

DVI

PIN NO.	SYMBOL
1	RX2+
2	GND
3	RX2-
4	RX1+
5	GND
6	RX1-
7	RX0+
8	GND
9	RX0-
10	RXC+
11	GND
12	RXC-
13	NC
14	NC
15	SCL
16	SDA
17	GND
18	5V
19	Detect

USB

Pin	Symbol	Pin	Symbol
A1	GND	B12	GND
A4	NC	B9	NC
A5	NC	B8	NC
A6	D+	B7	D-
A7	D-	B6	D+
A8	NC	B5	NC
A9	NC	B4	NC
A12	GND	B1	GND

The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.