TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

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SPECIFICATION

MODULE NO.: WF121-1280800BL#A00-FC

General Specifications

Item	Dimension	Unit
Dot Matrix	1280 x R.G.B. x 800	dots
Module dimension	278.0*184.0*10.0	mm
Active area	261.12*163.2	mm
Pixel pitch	0.204 x 0.204	mm
LCD type	TFT, Normally Black, Transmissive	
Surface Treatment	AG type, 3H hard coating	
Backlight Type	LED ,Normally White	
TFT Interface	LVDS	
Aspect Ratio	16：9	
Touch Panel	Without Touch Panel	

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-20	—	+70	℃

Electrical Characteristics

LCD ELETRONICS SPECIFICATION

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		Vcc	3.0	3.3	3.6	V
Permissive Ripple Voltage		V_{RP}	-	50	-	mV
Rush Current		I_{RUSH}		1.5		A
Initial Stage Current		I_{IS}	-	-	1.0	A
Power Supply Current	White	-	-	530	630	mA
	Black	-	-	350	420	mA
LVDS Differential Input High Threshold		$V_{TH(LVDS)}$	+100	-	-	mV
LVDS Differential Input Low Threshold		$V_{TL(LVDS)}$	-	-	-100	mV
LVDS Common Mode Voltage		V_{CM}	1.125	-	1.375	V
LVDS Differential Input Voltage		$\|V_{ID}\|$	100	-	600	mV
Terminating Resistor		R_T	-	100	-	Ohm

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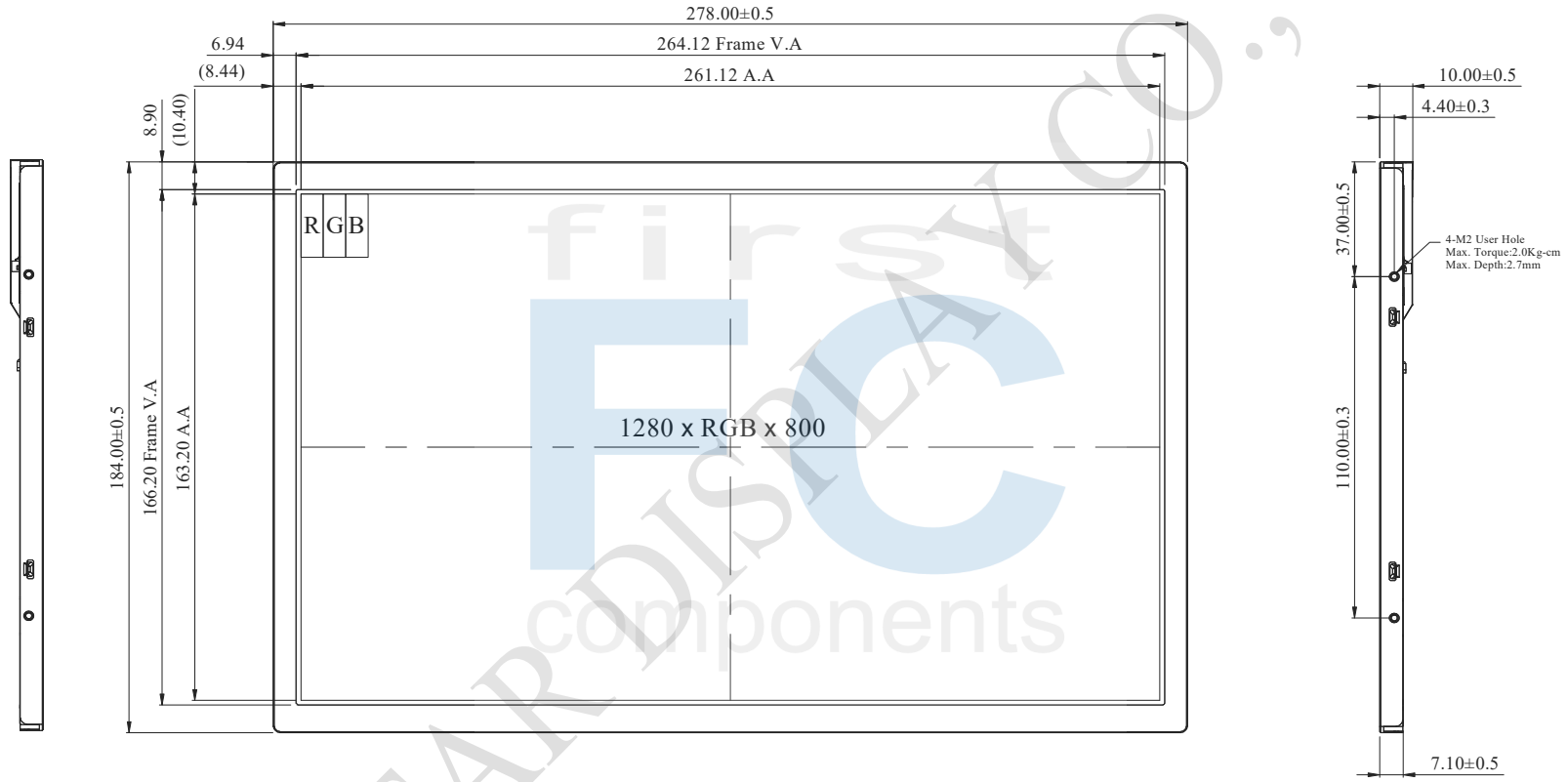
Interface

LCM PIN Definition

Pin No.	Symbol	Description
1	12V	LED power
2	12V	LED power
3	12V	LED power
4	12V	LED power
5	ENLED	Enable pin
6	Dimming	Backlight Adjust
7	GND	Ground
8	GND	Ground
9	VCC	Power supply: +3.3V
10	VCC	Power supply: +3.3V
11	GND	Ground
12	GND	Ground
13	RX0-	Negative transmission data of pixel 0
14	RX0+	Positive transmission data of pixel 0
15	GND	Ground
16	RX1-	Negative transmission data of pixel 1
17	RX1+	Positive transmission data of pixel 1
18	GND	Ground
19	RX2-	Negative transmission data of pixel 2
20	RX2+	Positive transmission data of pixel 2
21	GND	Ground
22	RXCLK-	Negative of clock
23	RXCLK+	Positive of clock
24	GND	Ground
25	RX3-	Negative transmission data of pixel 3
26	RX3+	Positive transmission data of pixel 3
27	GND	Ground
28	SEL6/8	LVDS 6/8 bit select function control, Low or NC → 6 bit Input Mode High → 8bit Input Mode
29	GND	Ground
30	GND	Ground

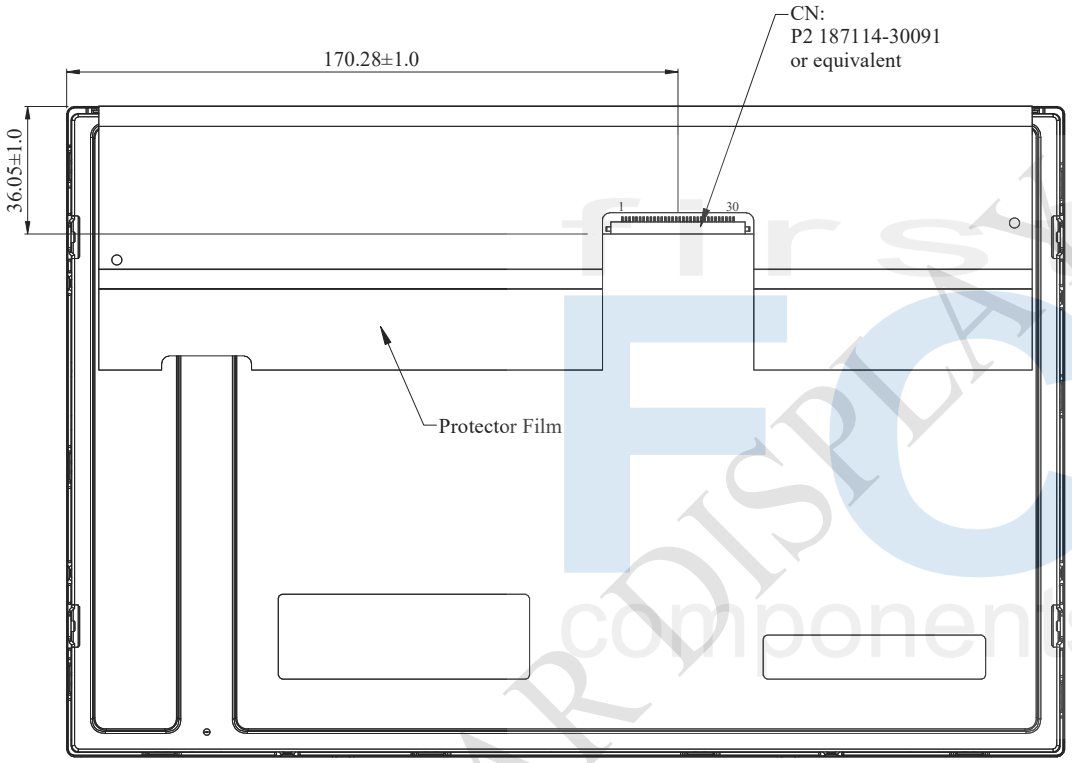
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Contour Drawing



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

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PIN NO.	SYMBOL
1	12V
2	12V
3	12V
4	12V
5	ENLED
6	Dimming
7	NC
8	NC
9	VCC
10	VCC
11	GND
12	GND
13	RX0-
14	RX0+
15	GND
16	RX1-
17	RX1+
18	GND
19	RX2-
20	RX2+
21	GND
22	RXCLK-
23	RXCLK+
24	GND
25	RX3-
26	RX3+
27	GND
28	SEL6/8
29	GND
30	NC

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

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