



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.: WF121ETWAMLNNO#

General Specifications

Item	Dimension	Unit
Size	12.1	inch
Pixel Number	1024 x R.G.B. x 768	pixel
Module dimension	260.5 x 204.0 x 8.4	mm
Bezel Opening Area	249.0 x 187.5	mm
Active Area	245.76 (H) x 184.32 (V)	mm
Pixel Pitch	0.240(H) x 0.240(V)	mm
LCD type	TFT, Normally black, Transmissive	
View Direction	Wide View	
Aspect Ratio	4:3	
TFT Driver IC	TBD	
TFT Interface	1ch-LVDS	
Backlight Type	LED ,Normally White	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+85	°C
Storage Temperature	TST	-40	—	+90	°C

Electrical Characteristics

TFT LCD Module

Ta = 25 ± 2 °C

Parameter	Symbol	Value			Unit
		Min	Typ	Max	
Power Supply Voltage	VCC	3.0	3.3	3.6	V
Rush Current	IRUSH	-	-	4	A
Power Supply Current	White	-	370	450	mA
	Black	-	300	380	mA
Power Consumption	PL	-	1.22	1.49	W
LVDS differential input voltage	VID	100	-	600	mV
LVDS common input voltage	VICM	0.7	-	1.6	V

Interface

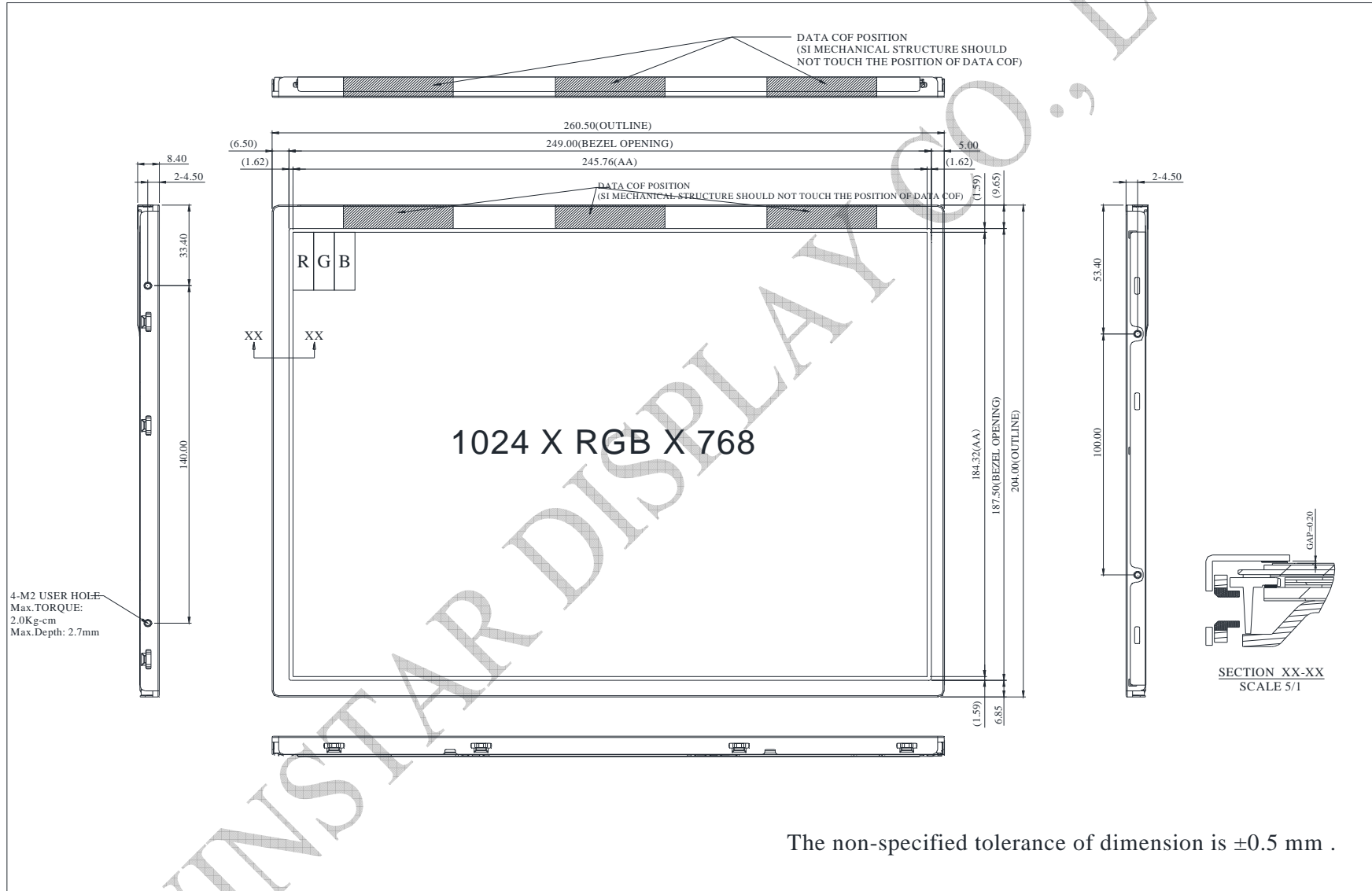
TFT LCD Module

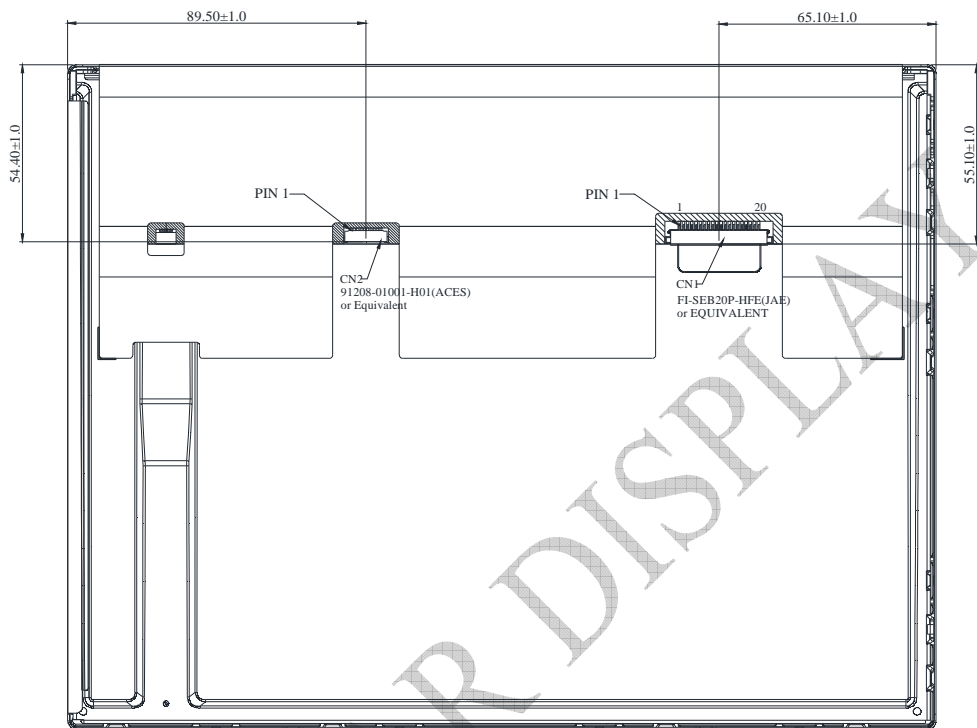
Pin	Name	Description
1	RX3+	Differential Data Input, CH3 (Positive)
2	RX3-	Differential Data Input, CH3 (Negative)
3	NC	NC
4	SEL68	LVDS 6/8 bit select function control,
5	GND	Ground
6	RXC+	Differential Clock Input (Positive)
7	RXC-	Differential Clock Input (Negative)
8	GND	Ground
9	RX2+	Differential Data Input , CH2 (Positive)
10	RX2-	Differential Data Input , CH2 (Negative)
11	GND	Ground
12	RX1+	Differential Data Input , CH1 (Positive)
13	RX1-	Differential Data Input, CH1 (Negative)
14	GND	Ground
15	RX0+	Differential Data Input, CH0 (Positive)
16	RX0-	Differential Data Input, CH0 (Negative)
17	reLR	Horizontal Reverse Scan Control,
18	reUD	Vertical Reverse Scan Control,
19	VCC	Power supply
20	VCC	Power supply

2. Backlight Unit(Converter connector pin)

Pin	Symbol	Description
1	Vi	Converter input voltage
2	Vi	Converter input voltage
3	Vi	Converter input voltage
4	Vi	Converter input voltage
5	V _{GND}	Converter ground
6	V _{GND}	Converter ground
7	V _{GND}	Converter ground
8	V _{GND}	Converter ground
9	EN	Enable pin
10	ADJ	Backlight Adjust

Contour Drawing





CN2	
PIN NO.	SYMBOL
1	V _i
2	V _i
3	V _i
4	V _i
5	VGND
6	VGND
7	VGND
8	VGND
9	EN
10	ADJ

CN1	
PIN NO.	SYMBOL
1	RX3+
2	RX3-
3	NC
4	SEL68
5	GND
6	RXC+
7	RXC-
8	GND
9	RX2+
10	RX2-
11	GND
12	RX1+
13	RX1-
14	GND
15	RX0+
16	RX0-
17	reLR
18	reUD
19	VCC
20	VCC

The non-specified tolerance of dimension is ± 0.5 mm .