



RAYSTAR

曜凌光電股份有限公司

Web: www.raystar-optronics.com E-mail: sales@raystar-optronics.com

RFM1210E-AWW-LNN

SPECIFICATION

General Specifications

- 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.

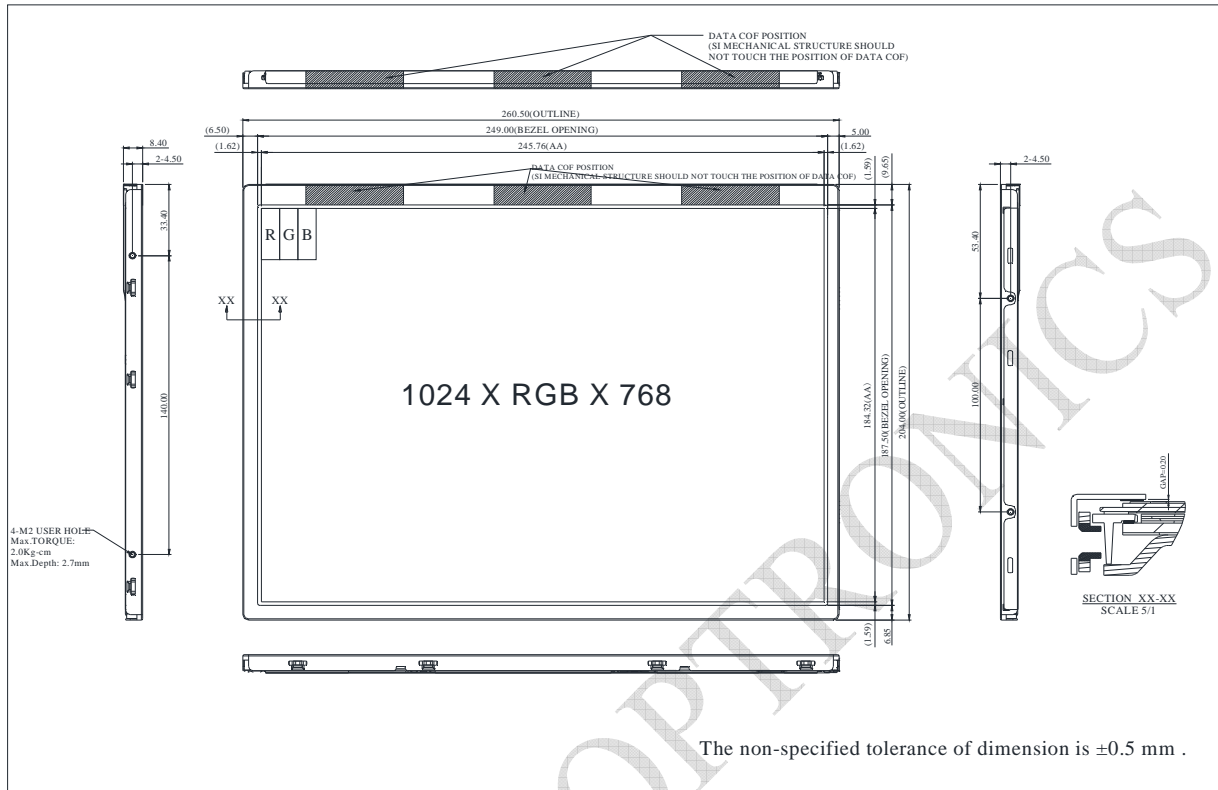
Interface

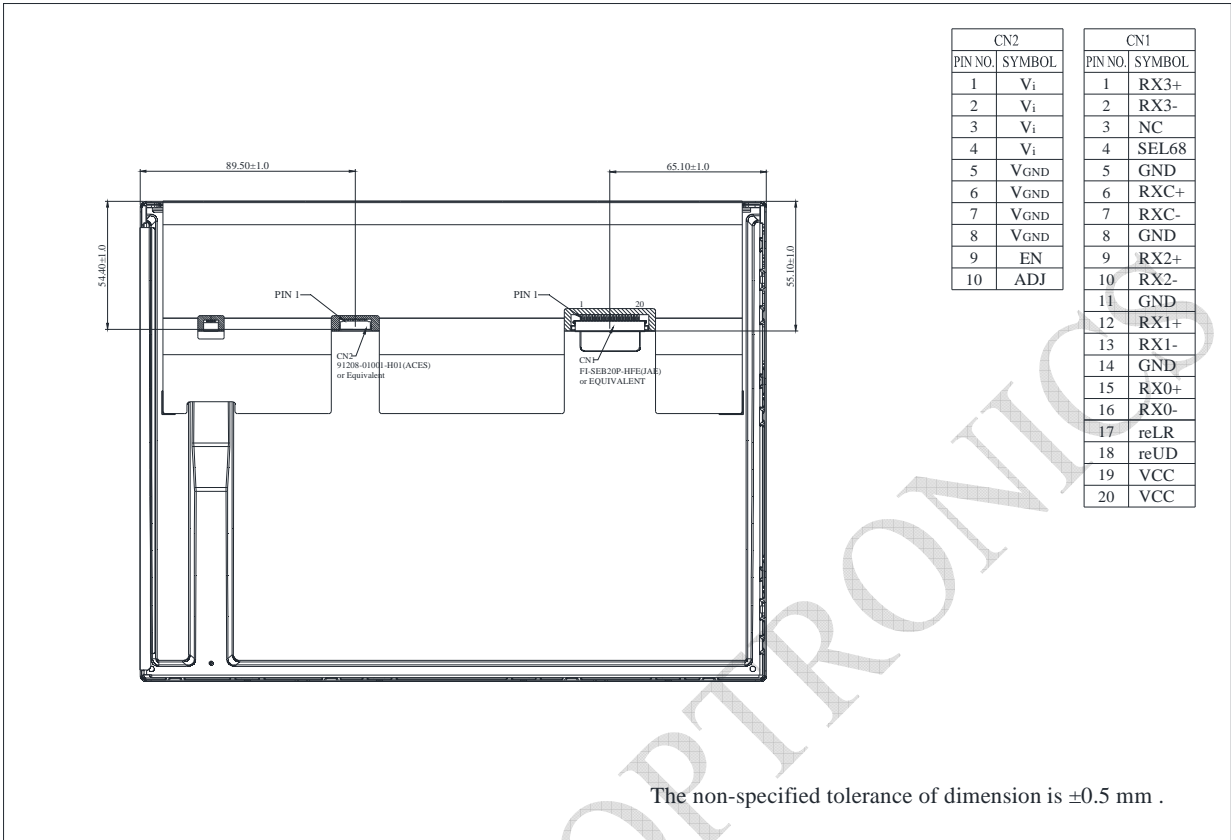
1. TFT LCD MODULE

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, Low or NC 6 bit Input Mode High 8bit Input Mode
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, Low or NC Normal Mode. High Horizontal Reverse Scan
18	reUD	Vertical Reverse Scan Control, Low or NC Normal Mode, High Vertical Reverse Scan
19	VCC	Power supply
20	VCC	Power supply

N

Contour Drawing





CN2	
PIN NO.	SYMBOL
1	V _i
2	V _i
3	V _i
4	V _i
5	V _{GND}
6	V _{GND}
7	V _{GND}
8	V _{GND}
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 .

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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

 $T_a = 25 \pm 2 \text{ }^\circ\text{C}$

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