



RAYSTAR

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RFM1210A-AIW-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: 246.0(H) x 184.5(V) mm
- Pixel Pitch: 0.240(H) x 0.240(V) mm
- LCD type: TFT, Normally white, Transmissive
- Surface Treatment: Hard coating (3H), Glare
- Backlight Type: LED ,Normally White
- Module Power Consumption: 11.8W (Black pattern)
- With /Without TP: Without TP
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

Interface

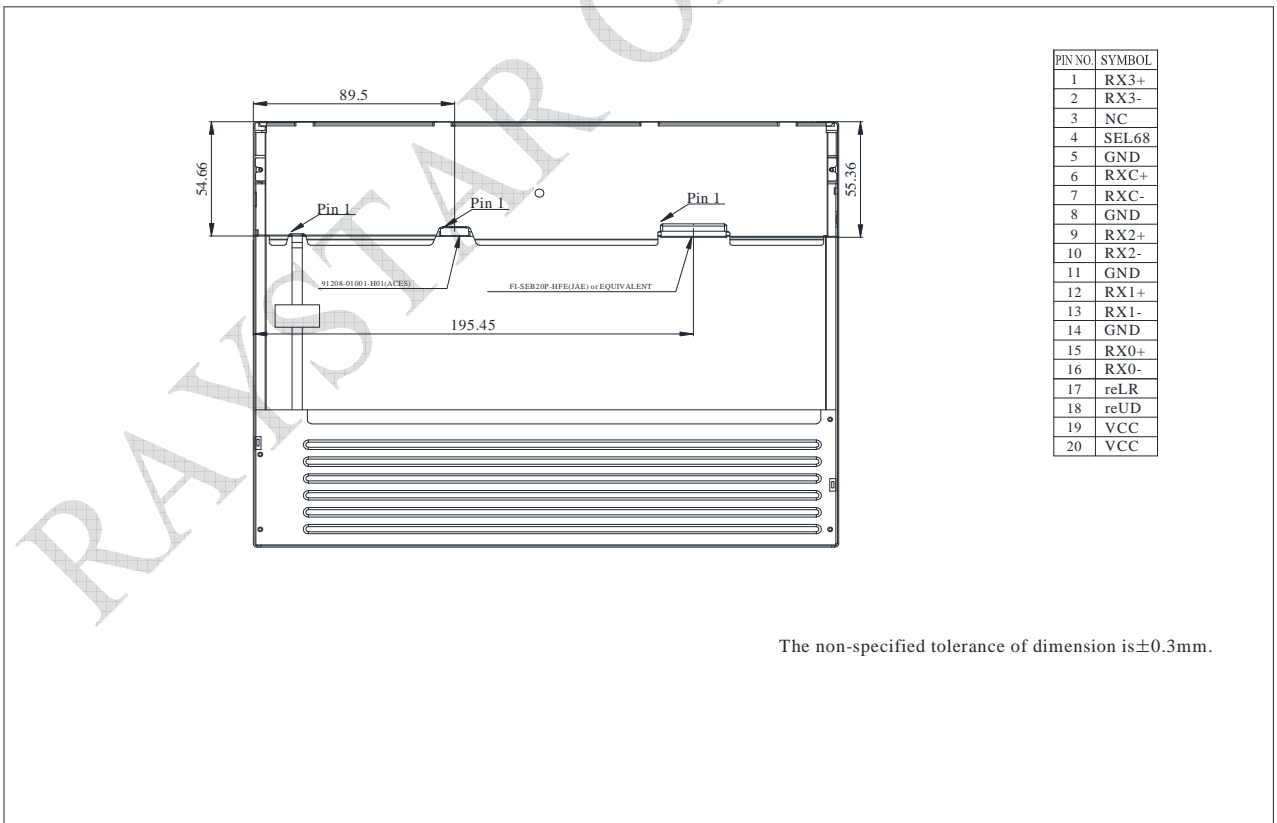
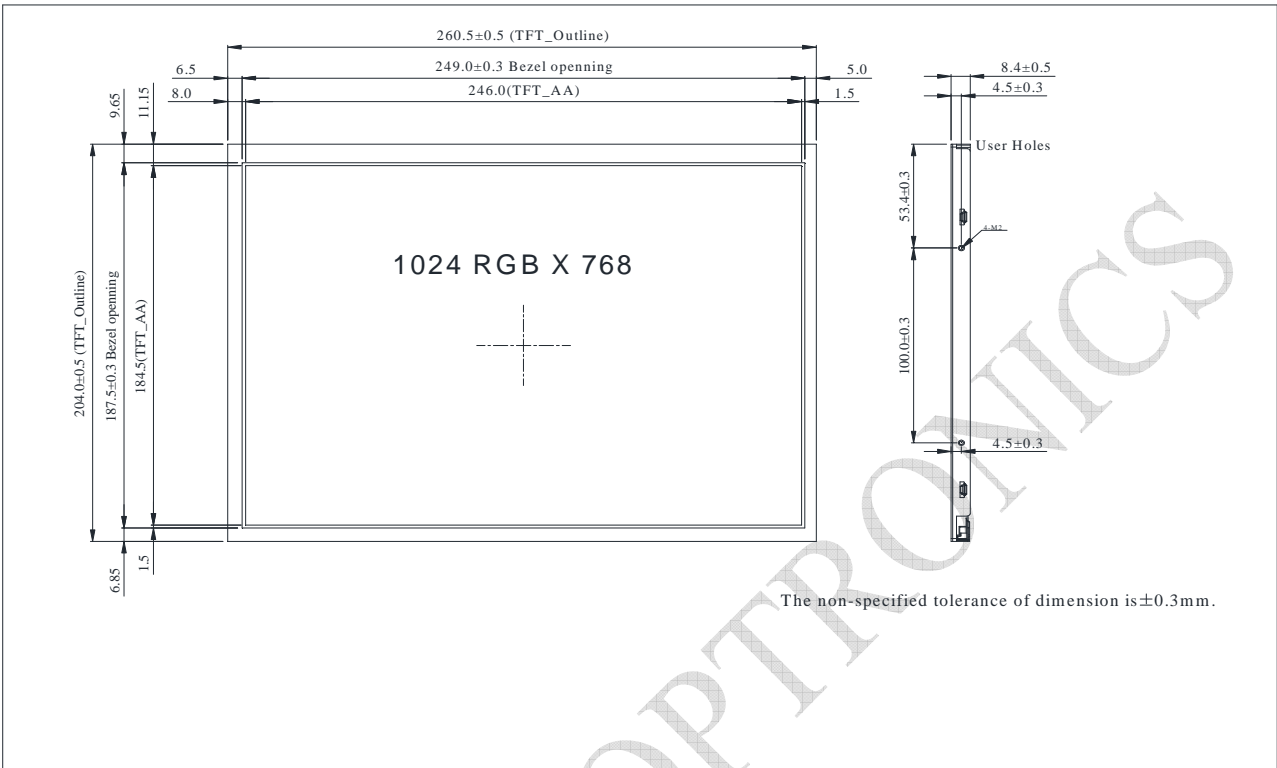
TFT LCD Module

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, 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

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	VGND	Converter ground
6	VGND	Converter ground
7	VGND	Converter ground
8	VGND	Converter ground
9	EN	Enable pin
10	ADJ	Backlight Adjust

Contour Drawing



Absolute Maximum Ratings

Absolute ratings of environment

Item	Symbol	Value		Unit
		Min	Max	
Operating Ambient Temperature	TOP	-30	+80	°C
Storage Temperature	TST	-40	+85	°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
			4.75	5.0	5.25	V
Rush Current		IRUSH	-	-	4	A
Power Supply Current	White	-	-	410	490	mA
			-	320	395	mA
	Black		-	540	650	mA
			-	400	480	mA
Power Consumption		PL	-	2.0	-	W
LVDS differential input voltage		VID	100	-	600	mV
LVDS common input voltage		VICM	0.7	-	1.6	V