

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFM1040G-AWH-LNB

General Specifications

- Size: 10.4 inch
- Dot Matrix: 1024 x RGB x 768 (TFT) dots
- Module dimension: 240.6 x 190.8 x 15.65 mm
- Active area: 210.432 x 157.824 mm
- Pixel pitch: 0.2055 X 0.2055 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80 min
- Aspect Ratio: 4:3
- TFT Interface: LVDS
- Backlight Type: LED, Normally White
- PCAP IC: ILI2511
- PCAP Interface: USB
- PCAP FW Version: 0x06.0x00.0x00.0x00.0x00.0x00.0x00.0x00
- PCAP Resolution: 16384*16384
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare
- Side screw torque : TBD
- Assembly Instructions:

Need to use edge measuring keyholes to perform fixing and support.

Interface

LCM PIN Definition (CON1)

Pin	Symbol	Function
1-2	VDD	Power supply: + 3.3V
3-4	GND	Ground
5	Link0-	0- LVDS differential data input
6	Link0+	0+ LVDS differential data input
7	GND	Ground
8	Link1-	1- LVDS differential data input
9	Link1+	1+ LVDS differential data input
10	GND	Ground
11	Link2-	2- LVDS differential data input
12	Link2+	2+ LVDS differential data input
13	GND	Ground
14	CLKIN-	- LVDS differential clock input
15	CLKIN+	+ LVDS differential clock input
16	GND	Ground
17	Link3-	3- LVDS differential data input
18	Link3+	3+ LVDS differential data input
19	MODE	LVDS 6/8 bit select function control, Low or NC →6bit Input Mode; High →8bit Input Mode
20	SC	Scan direction selector (Low: Normal ;High: Reverse)

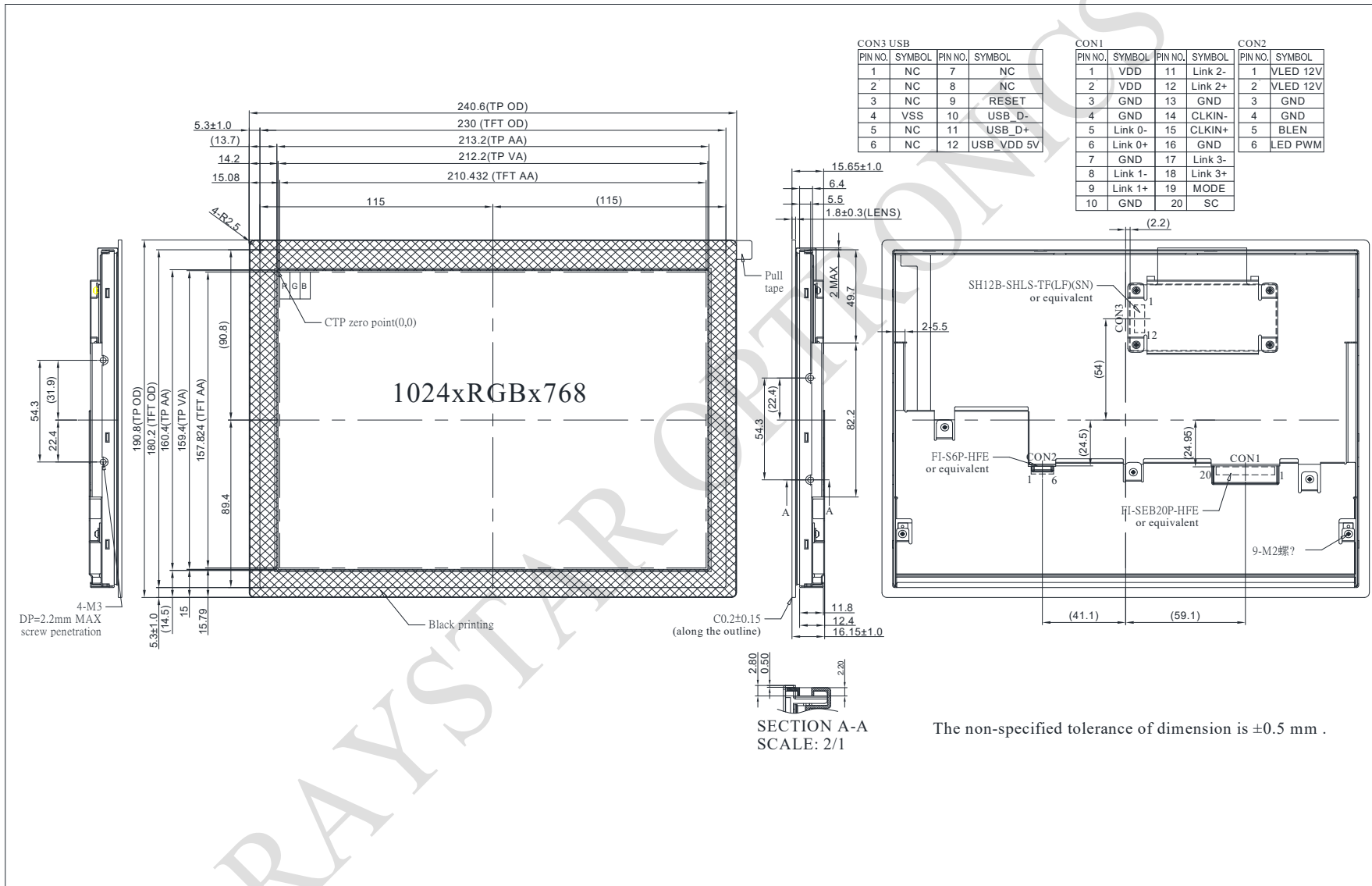
CON2

Pin	Symbol	Function
1-2	VLED 12V	12V input
3-4	GND	Ground
5	BL EN	Backlight ON-OFF
6	LED PWM	Light Dimming Control (PWM) Input Voltage (Low active)

CON3

Pin	Symbol	Function
1-3	NC	No connection
4	Vss	Power ground.
5-8	NC	No connection
9	RESET	RST
10	USB_D-	D-
11	USB_D+	D+
12	USB_VDD 5V	Power supply

Contour Drawing



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions

Item	Symbol	Standard Value			Unit
		Min	Typ	Max	
Power voltage	V _{DD}	3.0	3.3	3.6	V
Supply CTP	USB_VDD 5V	4.4	5.0	5.5	V
	I _{VDD 5V}	—	95	145	mA
Input logic high voltage	V _{IH}	0.7 V _{DD}	-	V _{DD}	V
Input logic low voltage	V _{IL}	0	-	0.3 V _{DD}	V
Current for Power	I _{VDD}	-	385	424	mA

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Backlight Enable(BLEN)	High Level	1.3	3.3	-	V
	Low Level	-	0.8	1.0	V
PWM Control Level (PWM)	High Level	-	3.3	-	V
	Low Level	-	0	-	V
PWM Control Duty Ratio	-	0	-	100	%
PWM Control Frequency	-	12K	15K	30K	Hz
LED Life Time	-	-	100,000	-	Hr