

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFM08400A-AWH-LNB

General Specifications

- Screen Diagonal: 8.4 inch
- Number of Pixels: 1024 x 3(BGR) x 768 dots
- Module dimension: 199.5 x 149.0 x 14.3 mm
- Active area: 170.8032 (H) x 128.1024(V) mm
- Pixel pitch: 0.1668 × 0.1668 mm
- Display Mode: Normally Black , Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Drive IC: ST5821AH+ST5084AA
- Interface: LVDS
- Backlight Type: LED, Normally White
- Aspect Ratio: 4:3
- Side screw torque : Typ:0.9 Max:1.3 (Unit,Kgf-cm)
- PCAP IC: EXC81W32
- PCAP Interface: USB (I2C available)
- PCAP FW Version: 00_T1_M03
- PCAP Resolution: 16384x16384
- Touch Panel: Projected Capacitive Touch Panel (PCAP)
- Surface: Glare

Interface

LCM PIN Definition

Pin No.	Symbol	Function
1	VDD	Power supply
2	VDD	Power supply
3	GND	Ground
4	GND	Ground
5	Link0-	0- LVDS differential data input (D0N)
6	Link0+	0+ LVDS differential data input (D0P)
7	GND	Ground
8	Link1-	1- LVDS differential data input (D1N)
9	Link1+	1+ LVDS differential data input (D1P)
10	GND	Ground
11	Link2-	2- LVDS differential data input (D2N)
12	Link2+	2+ LVDS differential data input (D2P)
13	GND	Ground
14	CLKIN-	- LVDS differential clock input (CLKN)
15	CLKIN+	+ LVDS differential clock input (CLKP)
16	GND	Ground
17	Link3-	3- LVDS differential data input (D3N)
18	Link3+	3+ LVDS differential data input (D3P)
19	MODE	Bit 6/8:Low(6 Bit);High(8 Bit)
20	SC	Scan direction selector (Low: Normal ;High: Reverse)

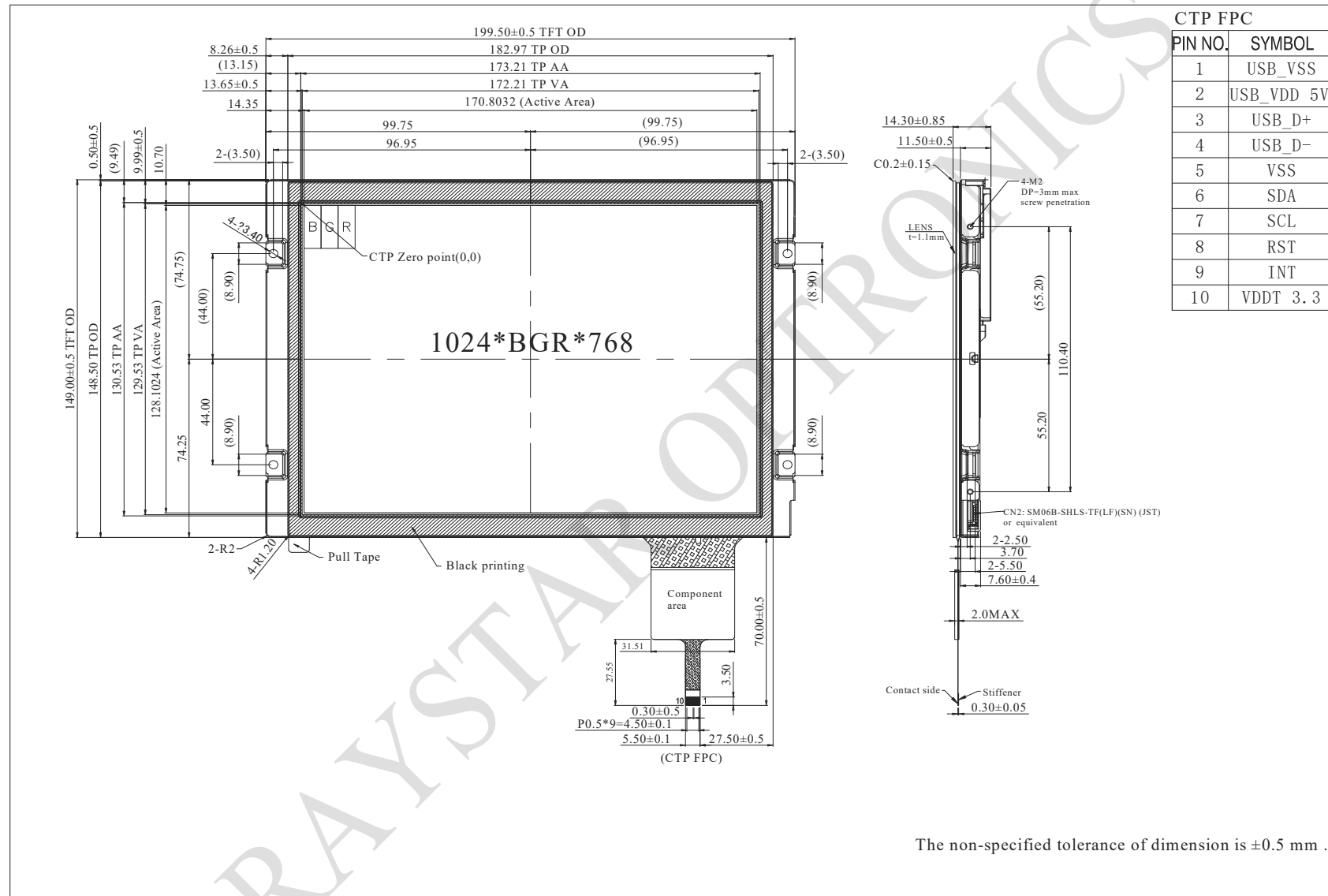
CN2

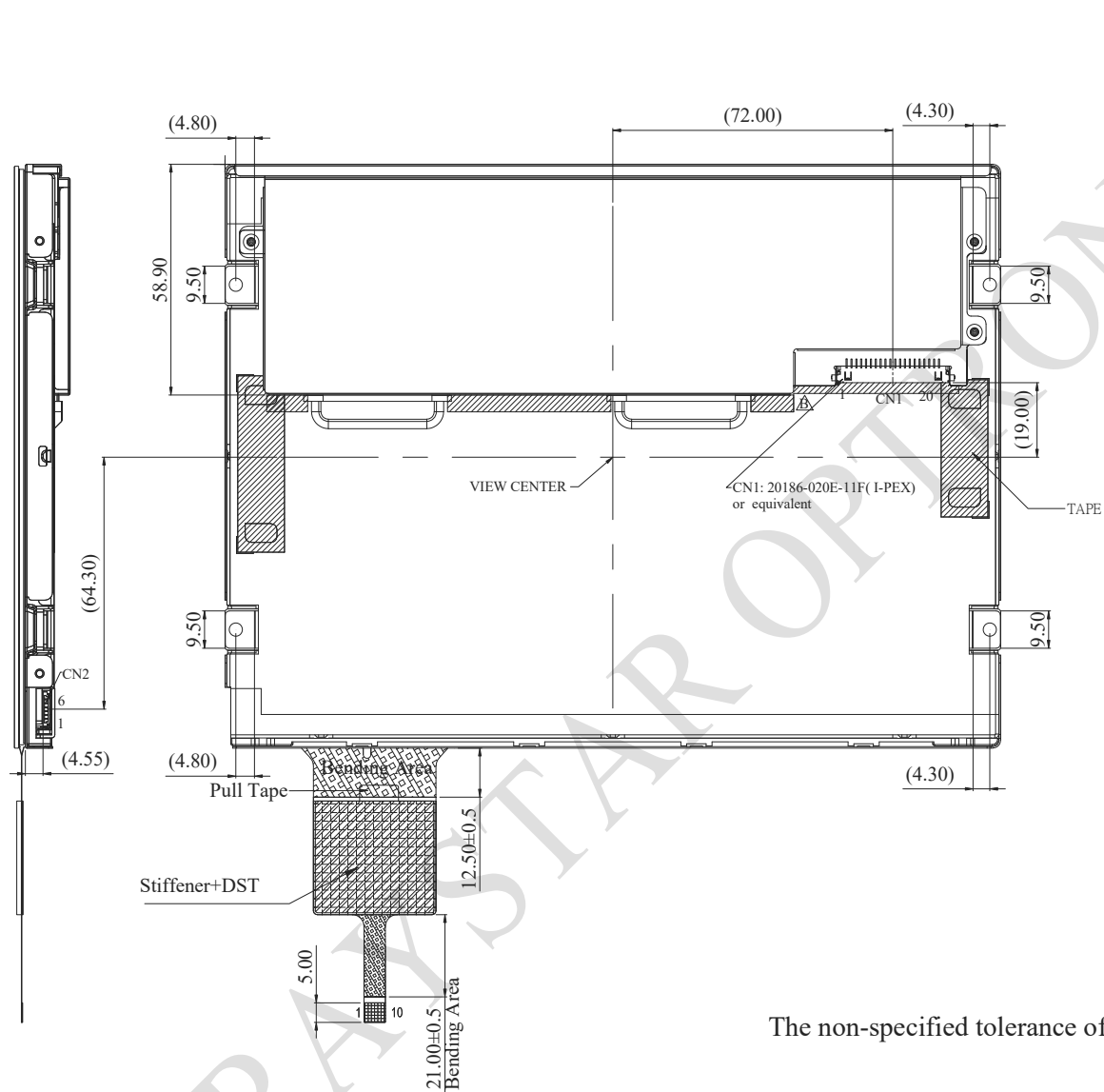
Pin No.	Symbol	Function
1	LED C3	LED_ Cathode 3
2	LED A3	LED_ Anode 3
3	LED C1	LED_ Cathode 1
4	LED A1	LED_ Anode 1
5	LED A2	LED_ Anode 2
6	LED C2	LED_ Cathode 2

PCAP PIN Definition

Pin	Symbol	Function
1	USB_VSS	System ground
2	USB_VDD 5V	Power supply
3	USB_D+	Data +
4	USB_D-	Data -
5	VSS	System ground
6	SDA	I2C data input and output (Must be pulled high.)
7	SCL	I2C clock input (Must be pulled high.)
8	RST	External Reset, Low is active
9	INT	External interrupt to the host
10	VDDT 3.3	Power supply

Contour Drawing





CN2

Pin	Symbol
1	LED C3
2	LED A3
3	LED C1
4	LED A1
5	LED A2
6	LED C2

CN1

Pin	Symbol
1	VDD
2	VDD
3	GND
4	GND
5	Link0-
6	Link0+
7	GND
8	Link1-
9	Link1+
10	GND
11	Link2-
12	Link2+
13	GND
14	CLKIN-
15	CLKIN+
16	GND
17	Link3-
18	Link3+
19	MODE
20	SC

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

Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions:

Item		Symbol	Min	Typ	Max	Unit
Supply Voltage For Logic		V_{DD}	3.0	3.3	3.6	V
Power Supply For Current		$V_{DD}=3.3V$	—	330	495	mA
Input Voltage	H level	V_{IH}	$0.7V_{DD}$	—	V_{DD}	V
	L Level	V_{IL}	GND	—	$0.3V_{DD}$	V
Supply PCAP		USB_VDD 5V	4.4	5.0	5.5	V
		$I_{VDD\ 5V}$	—	45	68	mA
		VDDT	2.8	3.3	3.5	V
		I_{VDDT}	—	45	68	mA