

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFA515600B-AYH-ENB

General Specifications

- Size: 15.6 inch
- Dot Matrix: 1920 x RGB x 1080 dots
- Module dimension: 393.8(W) x 245.9(H)x 12.2(D) mm
- Active area: 344.16 x 193.59 mm
- Pixel pitch: 0.17925 (H) x 0.17925 (V) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80(IPS)
- Backlight Type: LED, Normally White
- Driver IC: TC2055G
- Interface: eDP
- PCAP Driver IC: ILI2511
- PCAP Interface: USB (I2C available)
- PCAP FW Version: 0x06.0x00.0x00.0x00.0xFF.0xFF.0xFF.0xFF
- PCAP Resolution: 16384 * 16384
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare

Interface

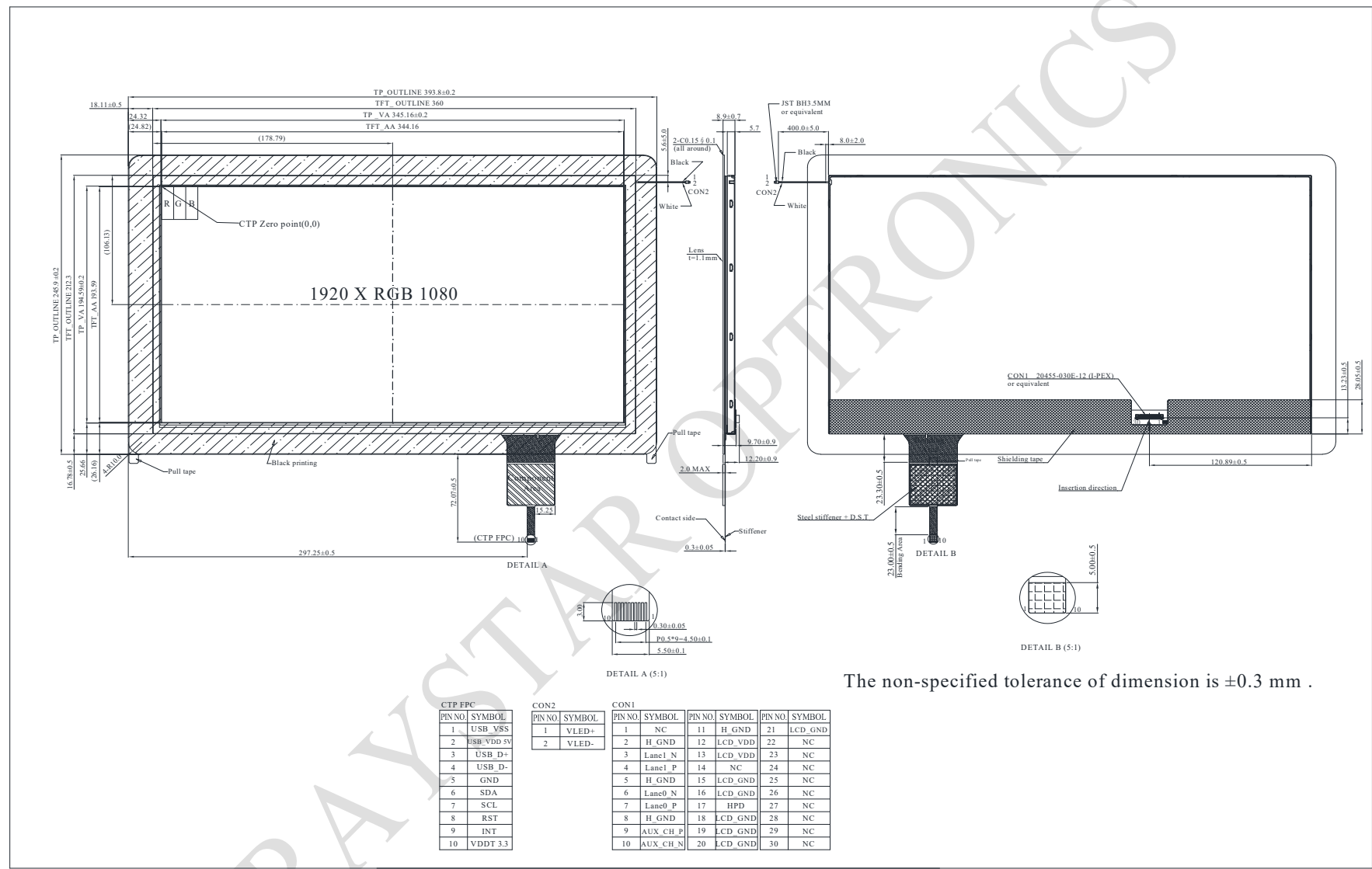
LCM PIN Definition

Pin No.	Signal Name	Description
1	NC	Not Connect
2	H_GND	Ground
3	Lane1_N	Complement Signal Link Lane 1
4	Lane1_P	True Signal Line 1
5	H_GND	Ground
6	Lane0_N	Complement Signal Link Lane 0
7	Lane0_P	True Signal Line 0
8	H_GND	Ground
9	AUX_CH_P	True Signal Auxiliary Ch.
10	AUX_CH_N	Complement Signal Auxiliary Ch.
11	H_GND	Ground
12-13	LCD_VDD	LCD Logic and Driver Power
14	NC	Not Connect
15-16	LCD_GND	Ground
17	HPD	HPD Signal Pin
18-21	LCD_GND	Ground
22-30	NC	Not Connect

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
7	SCL	I2C clock input
8	RST	External Reset, Low is active
9	INT	External interrupt to the host
10	VDDT 3.3	Power supply

Contour Drawing



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

LCD Module

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
Logic/LCD Drive Voltage	LCD_VDD	3.0	3.3	3.6	V	
LCD_VDD Current	IDD	-	200	300	mA	
LCD_VDD Current	IDDMAX	-	-	400	mA	
LCD_VDD Power	PDD	-	0.66	1.32	W	
Inrush Current	IRush	-	-	2	A	
Allowable Logic/LCD Drive Ripple Voltage	LCD_VDDrp	-	-	100	mV	Vp-p
Supply Voltage For Touch Logic	USB_VDD 5V	4.75	5.0	5.25	V	USB type
	I _{USB_VDD 5V}	-	95	150	mA	
	VDDT 3.3	2.7	3.0	3.3	V	I2C type
	I _{VDDT3.3}	-	90	150	mA	