



RAYSTAR

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RF3500D-AYW-MNG1

SPECIFICATION

General Specifications

- Size: 5.0 inch
- Dot Matrix: 720 × 3(RGB) × 1280 dots
- Module dimension: 73.3 (W) × 127.6 (H) × 3.45 mm
- Active area: 62.1 (W) × 110.4 (H) mm
- Dot pitch: 0.08625(W) × 0.08625(H) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing angle: 80/80/80/80
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- CTP FW Version: 0x5F
- CTP IC: GT928
- With /Without TP: With PCAP
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

Interface

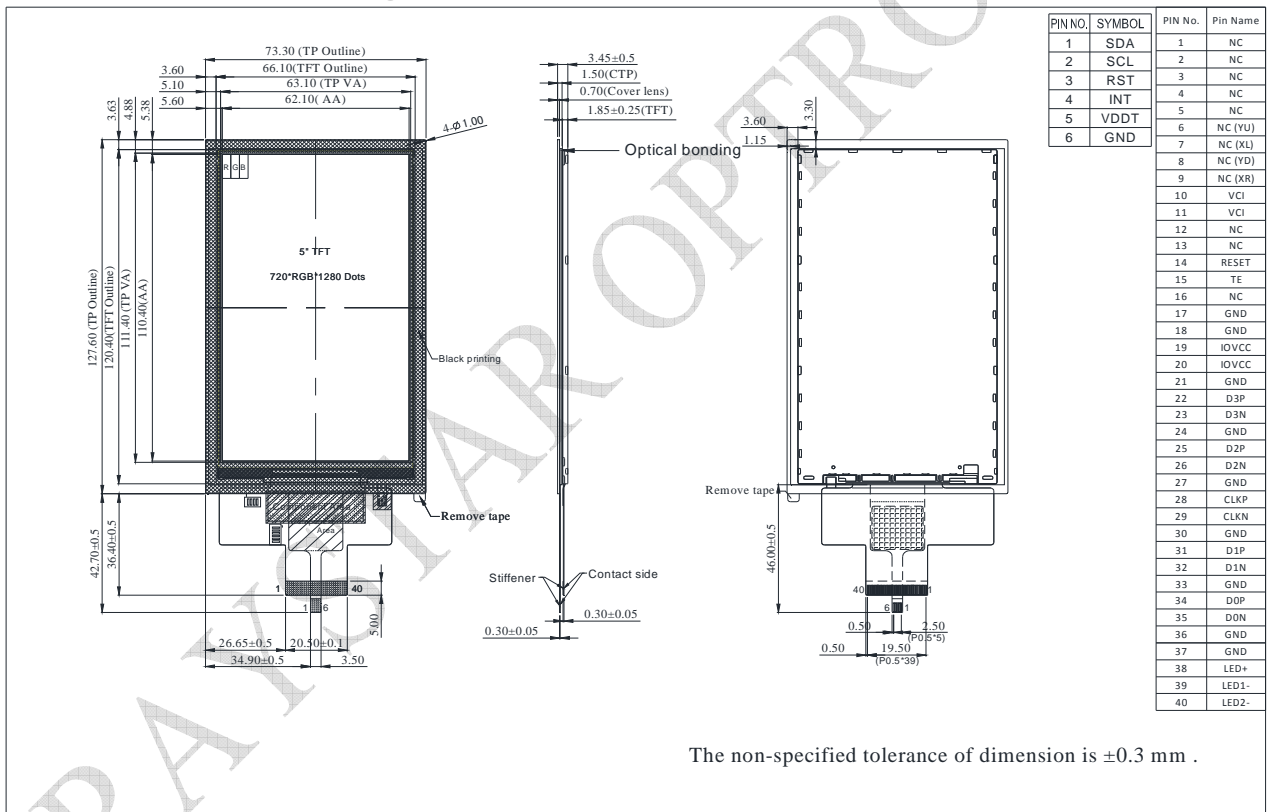
1. LCM PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	NC	No connection
3	NC	No connection
4	NC	No connection
5	NC	No connection
6	NC	No connection
7	NC	No connection
8	NC	No connection
9	NC	No connection
10-11	VCI	Power supply for analog circuits. Connect to an external power supply of 2.5V to 3.6V
12-13	NC	No connection
14	RESET	The external reset input Initializes the chip with a low input. Be sure to execute a power-on reset after supplying power. Fix to VDDI level when not in use.
15	TE	Tearing effect output pin. Leave the pin open when not in use.
16	NC	No connection
17-18	GND	Power ground
19-20	IOVCC	Power supply for analog circuits. Connect to an external power supply of 1.65V to 3.6V
21	GND	Power ground
22	D3P	MIPI DSI differential data pair. (Data lane 3)
23	D3N	
24	GND	Power ground
25	D2P	MIPI DSI differential data pair. (Data lane 2)
26	D2N	
27	GND	Power ground
28	CLKP	MIPI DSI differential clock pair
29	CLKN	
30	GND	Power ground
31	D1P	MIPI DSI differential data pair. (Data lane 1)
32	D1N	
33	GND	Power ground
34	D0P	MIPI DSI differential data pair. (Data lane 0)
35	D0N	
36-37	GND	Power ground
38	LED+	Power for LED backlight anode
39	LED1-	Power for LED1 backlight cathode
40	LED2-	Power for LED2 backlight cathode

2. PCAP PIN Definition

Pin	Symbol	Function
1	SDA	I2C data input and output
2	SCL	I2C clock input
3	RST	External Reset, Low is active
4	INT	External interrupt to the host
5	VDD	Power Supply : +3.3V
6	GND	Ground for analog circuit

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

Typical Operation Conditions

Item	Symbol	Values			Unit
		Min	Typ	Max	
Power supply for analog circuit	VCI	2.5	3.3	3.6	V
Power supply for logic circuit	IOVCC	1.65	1.8	3.6	V
Supply Voltage For Touch Logic	VDDT	2.8	-	3.3	V
Current for Driver	IDD	-	44	-	mA

Backlight Driving Conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	I _{LED}	-	40	-	mA
LED voltage	V _{LED+}	19.6	-	23.8	V
LED Life Time		30,000	-	-	Hr