

# TFT DISPLAY SPECIFICATION



RAYSTAR

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## RFC350P-EIW-DBG

### SPECIFICATION

#### General Specifications

- Size: 3.5 inch
- Dot Matrix: 320 x RGB x 240 dots
- Module dimension: 93.5 x 66.44 x 10.19 mm
- Active area: 70.08 x 52.56 mm
- Dot pitch: 0.073 x 0.219 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 4:3
- Backlight Type: LED ,Normally White
- Controller IC: RA8875 or Equivalent
- TFT Interface: Digital 8080 family MPU
- PCAP IC: ILI2130 or equivalent
- PCAP Interface: I2C
- PCAP FW Version: 0x07.0x00.0x00.0x00.0x00.0x35.0x5A.0x01
- PCAP Resolution: 16384\*16384
- Touch Panel: With PCAP
- Surface: Glare

\*Color tone slight changed by temperature and driving voltage.

## Interface

### 1. LCM PIN Definition (CON2)

Pin	Symbol	Function
1	GND	System ground
2	VDD	Power Supply : +3.3V
3	NC	No connect
4	RS	Data/Command select
5	WR	Write strobe signal
6	RD	Read strobe signal
7~22	DB0~DB15	Data bus
23	WAIT	Wait Signal Output(H:active)
24	CTP_INT	CTP Interrupt Signal From Touch Panel Module To Host
25	CS	Chip select
26	RST	Hardware reset
27	NC	No connect
28	NC	No connect
29	CTP_SCL	CTP Serial IIC Clock
30	CTP_SDA	CTP Serial IIC Data
31	CTP_RST	CTP Reset Signal
32	NC	No connect
33~34	VLED-	Power for LED backlight cathode
35~36	VLED+	Power for LED backlight anode



## Absolute Maximum Ratings

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

## Electrical Characteristics

1. Operating conditions: (CON2.Pin1=GND, Pin2=VDD)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	-	3.0	3.3	3.6	V
Supply Current For LCM	IDD	-	-	50	75	mA
Power Consumption		-	-	165	270	mW

Note 1 : This value is test for VDD only Ta = 25 °C

2. LED driving conditions (CON2. Pin33,34=VLED-, Pin35,36=VLED+)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operation Current For LED Driver	IVLED	-	-	75	mA
Power Consumption	-	-	-	375	mW
Supply Voltage For LED Driver	VLED+	3.3	-	5	V
LED Life Time	-	-	50,000	-	Hr