



RAYSTAR

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RFC57AP-EIW-DBG

SPECIFICATION

General Specifications

- Size: 5.7 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 141.12 × 101.55 × 14.535 mm
- Active area: 115.2 × 86.4 mm
- Dot pitch: 0.12 × 0.36 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
- Interface: Digital 8080 family MPU
- PCAP IC: FT5426
- PCAP Interface: I2C
- PCAP FW Version: FN058A001_FT5426_V02_20180604_all.bin
- Touch Panel: PCAP
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

Interface

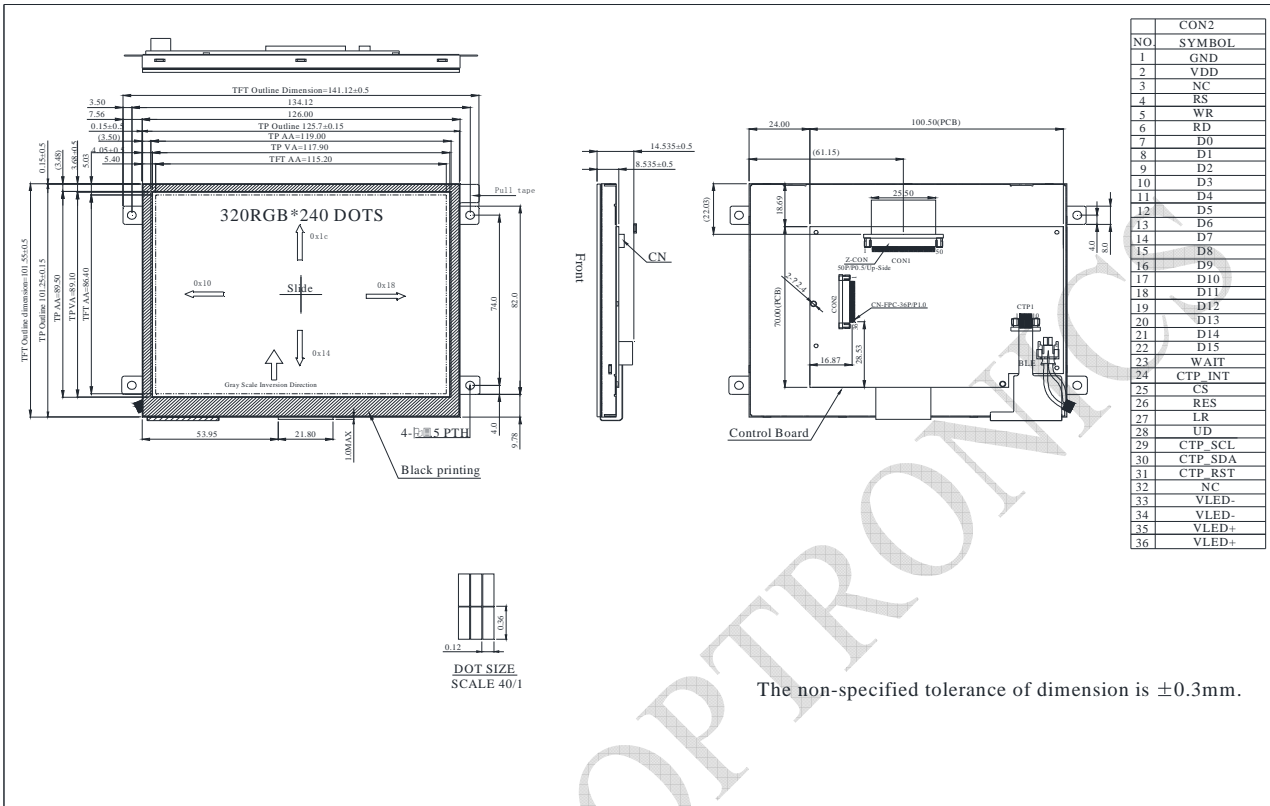
1. LCM PIN Definition

TFT LCD Panel Driving Section

FPC Connector is used for the module electronics interface.

Pin	Symbol	Function
1	GND	System ground
2	VDD	Power Supply : +3.3V
3	BL_E	PWM control
4	RS	Data/Command select
5	WR	Write strobe signal
6	RD	Read strobe signal
7	D0	Data bus
8	D1	Data bus
9	D2	Data bus
10	D3	Data bus
11	D4	Data bus
12	D5	Data bus
13	D6	Data bus
14	D7	Data bus
15	D8	Data bus
16	D9	Data bus
17	D10	Data bus
18	D11	Data bus
29	D12	Data bus
20	D13	Data bus
21	D14	Data bus
22	D15	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	L/R	Left / right selection; Default L/R=H
28	U/D	Up/down selection; ; Default U/D=L
29	CTP_SCL	CTP Serial IIC Clock
30	CTP_SDA	CTP Serial IIC Data
31	CTP_RST	CTP Reset Signal
32	NC	No Connection
33	VLED-	Power for LED backlight cathode(GND)
34	VLED-	Power for LED backlight cathode(GND)
35	VLED+	Power for LED backlight anode(+5V)
36	VLED+	Power for LED backlight anode(+5V)

Contour Drawing



The non-specified tolerance of dimension is ±0.3mm.

Absolute Maximum Ratings

Item	Symbol	Values		Unit
		Min	max	
Power Supply Voltages	VDD	-0.5	3.5	V
Input signal voltage	Logic input	-0.5	3.5	V
Operating Temperature	Topa	-20	70	°C
Storage Temperature	Tst	-30	80	°C
LED Reverse Voltage	Vr	-	1.2	V
LED Forward Current	IF	-	25	mA

Electrical Characteristics

1. Typical operation conditions

Item	Symbol	Values			Unit
		Min	Typ	max	
Power voltage	VDD	3.1	3.3	3.5	V
Current of driver	IVDD	-	214	-	mA

2. Backlight Driving Conditions

Parameter	Symbol	Min	Typ	Max	Unit
Operation Current For LED Driver	VLED=5V	250	—	375	mA
Power Consumption	VLED=5V	1250	—	1875	mW
Supply Voltage For LED Driver	VLED+	—	5	—	V
LED Life Time	—	—	50,000	—	Hr