



RAYSTAR

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RFE43CQ-EIW-DBC

SPECIFICATION

General Specifications

- Size: 4.3 inch
- Dot Matrix: 480 x RGB x 272(TFT) dots
- Module dimension: 106.7 x 83.98 x 8.78 mm
- Active area: 95.04 x 53.86 mm
- Dot pitch: 0.066 x 0.198 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Controller IC: SSD1963
- Interface: Digital 8080 family MPU 8bit/16bit
- PCAP IC: FT5346
- PCAP Interface: I2C
- PCAP FW Version: JSNTR_033_5x46_Ref_V02_D01_20180622_all
- Touch Panel: PCAP
- Surface: Glare

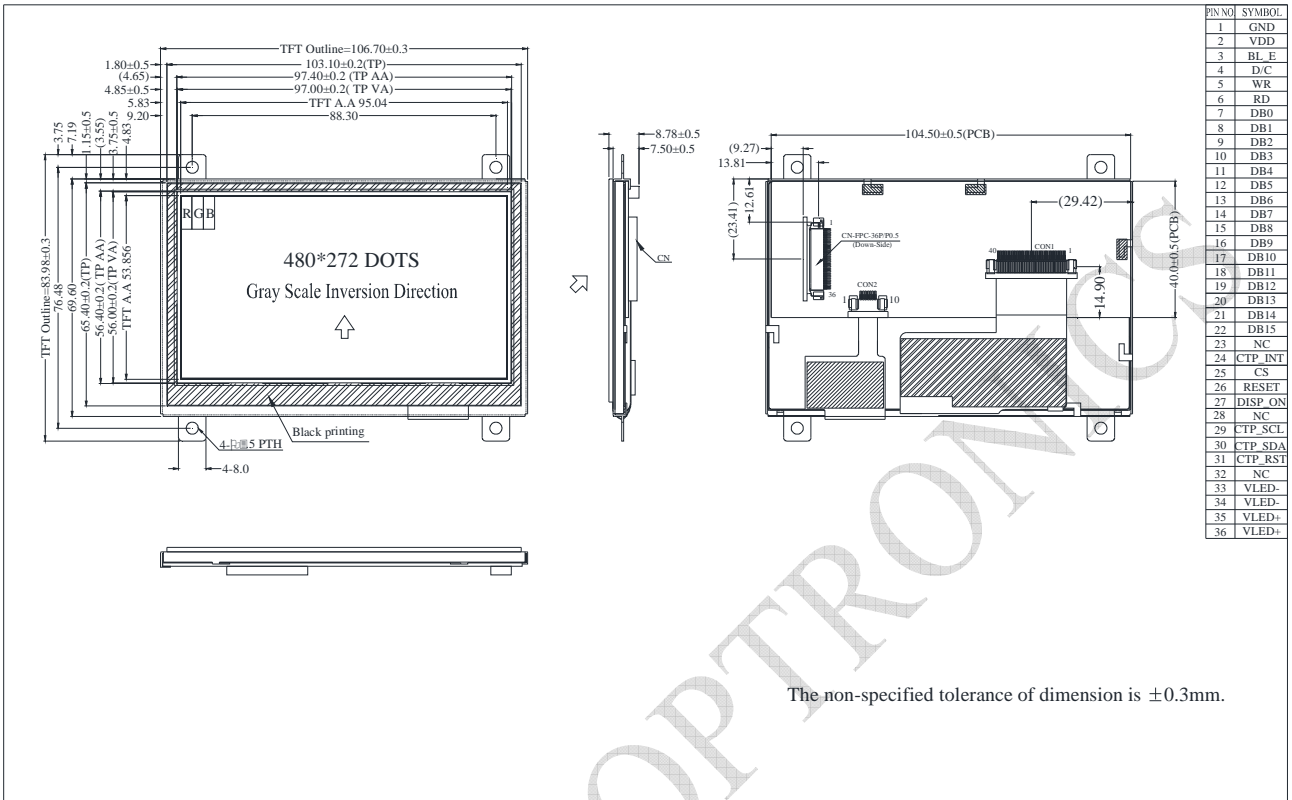
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition (CON3)

Pin	Symbol	Function
1	GND	System round pin of the IC. Connect to system ground.
2	VDD	Power Supply : +3.3V
3	BL_E	Backlight control signal , H: On \ L: Off
4	D/C	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 (When select 8bits mode, this pin is NC)
16	D9	Data bus (When select 8bits mode, this pin is NC)
17	D10	Data bus (When select 8bits mode, this pin is NC)
18	D11	Data bus (When select 8bits mode, this pin is NC)
19	D12	Data bus (When select 8bits mode, this pin is NC)
20	D13	Data bus (When select 8bits mode, this pin is NC)
21	D14	Data bus (When select 8bits mode, this pin is NC)
22	D15	Data bus (When select 8bits mode, this pin is NC)
23	NC	No connection
24	CTP_INT	External interrupt to the host
25	CS	Chip select
26	RESET	Hardware reset
27	DIP ON	Display control H: On \ L:Off
28	NC	No connection
29	CTP_SCL	Active low I2C clock input
30	CTP_SDA	Data input I2C data input and output
31	CTP_RST	External Reset, Low is active
32	NC	No connection
33	VLED-	VLED- for B/L LED inverter (GND)
34	VLED-	VLED- for B/L LED inverter (GND)
35	VLED+	VLED+ for B/L LED inverter (+3.3V)
36	VLED+	VLED+ for B/L LED inverter (+3.3V)

Contour Drawing



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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: (CON3.Pin1=GND, Pin2=VDD)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	3.0	3.1	3.3	V
Supply Current For LCM	IDD	—	—	210	350	mA

2. Backlight driving conditions (CON3.Pin33,34=VLED-, Pin35,36=VLED+)

Parameter	Symbol	Min	Typ	Max	Unit
Operation Current For LED Driver	VLED+=3.3V	270	-	405	mA
Power Consumption	VLED+=3.3V	891	-	1337	mW
Supply Voltage For LED Driver	VLED+	3.3	-	5	V
LED Life Time		-	50,000	-	Hr