

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFE430W-EYW-DSG

General Specifications

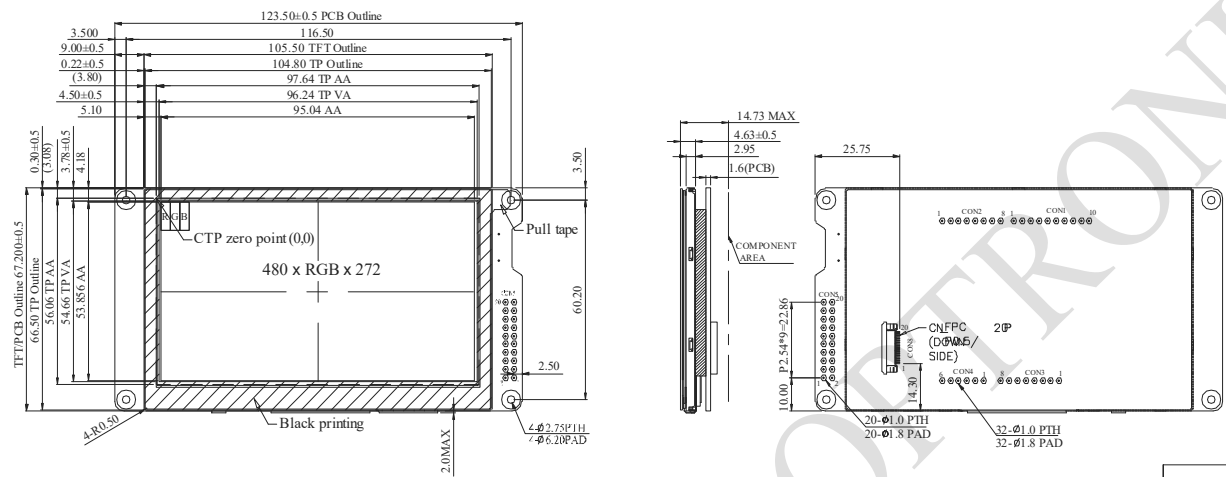
- Size: 4.3 inch
- Dot Matrix: 480 x RGBx272(TFT) dots
- Module dimension: 123.5 (W) x 67.2 (H) x 14.73(D)(MAX) mm
- Active area: 95.04 x 53.856 mm
- Pixel pitch: 0.198(H) x 0.198(V) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 80/80/80/80 (IPS)
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- Controller IC: BT815
- Interface: SPI/QSPI
- PCAP FW Version: 0x07.0x00.0x00.0x00.0x01.0x0C.0x11.0x43
- PCAP IC: ILI2130
- PCAP Interface: I2C
- PCAP Resolution: 16384*16384
- Touch Panel: Projected Capacitive Touch Panel, PCAP
- Surface: Glare

Interface

LCM PIN Definition (CON 5/CON 8)

Pin	Symbol	I/O	Function
1	VDD	P	3.3V power supply input
2	GND	P	Ground
3	SCK	I	SPI clock input
4	MISO	O	SPI Single mode: SPI MISO output SPI Dual/Quad mode: SPI data line 1
5	MOSI	I	SPI Single mode: SPI MOSI input SPI Dual/Quad mode: SPI data line 0
6	CS	I	SPI slave select input
7	INT	OD/O	Interrupt to host, open drain output(default) or push-pull output, active low
8	PD_N	I	Chip power down mode control input, active low. Connect to MCU GPIO for power management or hardware reset function
9	GPIO2	I/O	General purpose IO 2
10	GPIO3	I/O	General purpose IO 3
11	IO2	I/O	SPI Single/Dual mode: General purpose IO 0 SPI Quad mode: SPI data line 2
12	IO3	I/O	SPI Single/Dual mode: General purpose IO 1 SPI Quad mode: SPI data line 3
13	CSCL	I	Connect to I2C SCL pin of the CTP(ILI2130)
14	CSDA	I/O	Connect to I2C SDA pin of the CTP(ILI2130)
15	CRST	I	Connect to reset pin of the CTP(ILI2130)
16	CINT	O	Connect to interrupt pin of the CTP(ILI2130)
17	VLED	P	5V power supply input
18	VLED	P	5V power supply input
19	GND	P	Ground
20	GND	P	Ground

Contour Drawing



Note.
380nm transmittance(UV Cut at 380nm)<1.0%

CON5 / CON8			
PIN	SYMBOL	PIN	SYMBOL
1	VDD	2	GND
3	SCK	4	MISO
5	MOSI	6	CS
7	INT	8	PD N
9	GPIO2	10	GPIO3
11	IO2	12	IO3
13	CSCL	14	CSDA
15	CRST	16	CINT
17	VLED	18	VLED
19	GND	20	GND

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

Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For VDD	VDD	—	3.1	3.3	3.5	V
Supply Current For VDD	IDD	VDD=3.3V	—	100	150	mA
Supply Voltage For VLED	VLED	—	4.5	5	5.5	V
Supply Current For VLED	ILED	VLED=+5V	—	200	300	mA