RAYSTAR

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司

RL0F00043000WGAABSA00

SPECIFICATION

Summary

4.3 Inch Smart Display Feature

1. DC 5V working voltage.

2. Self-testing after booting function.

3. CAN bus communication interface.

4. Supports Custom CAN ID protocol, default baud rate at 250KB.

5. Built in flash memory, store the fonts and pictures.

6. Support capacitive touch panel (CTP).

7. Smart Display scenario is slave device display and action from Master Device instruction.

8. Embedded buzzer controlled by Master Device.
9. Demo set HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).
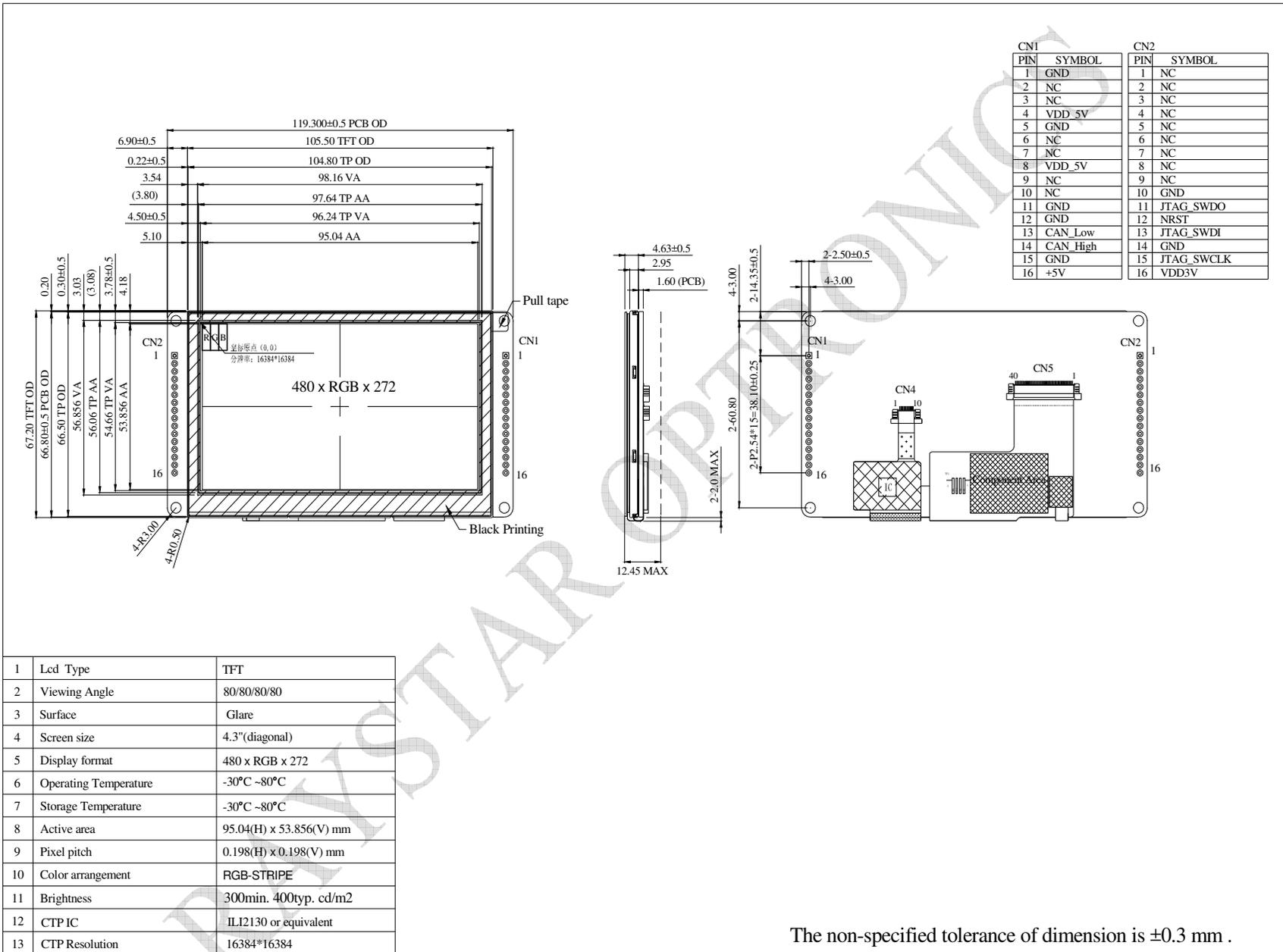
Product information

Mechanical Data

Item	Standard Value	Unit
LCD panel	105.5(W) × 67.2(H) × 4.6(D)	mm
PCB	119.3(W) × 67.2(H) × 1.6	mm
Housing outline	NA	mm

General information

Item	Standard Value	Unit
Operating voltage	5	Vdc
Communication Interface	CAN bus differential ± 3.3	Vpp
MCU	STM32F750	N/A
Flash Memory	16	MB
SDRAM Frequency	108	MHz
LCD display size	4.3	inch
Dot Matrix	480 × RGB × 272(TFT)	dot
Module dimension	105.5(W) × 67.2(H) × 4.6(D)	mm
Active area	95.04(W) × 53.856 (H)	mm
Dot pitch	0.066 (W) × 0.198(H)	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	16:9	
Touch Panel	With PCAP	
Surface	Glare	

Contour Drawing

Dimensional callouts (left view):
- 119.300±0.5 PCB OD
- 105.50 TFT OD
- 6.90±0.5
- 104.80 TP OD
- 0.22±0.5
- 98.16 VA
- 3.54
- 97.64 TP AA
- (3.80)
- 96.24 TP VA
- 4.50±0.5
- 95.04 AA
- 5.10

Vertical callouts:
- 67.20 TFT OD
- 66.80±0.5 PCB OD
- 66.50 TP OD
- 56.856 VA
- 56.06 TP AA
- 54.66 TP VA
- 53.856 AA
- 0.20
- 0.30±0.5
- 3.03
- (3.08)
- 3.78±0.5
- 4.18

- CN2 1 ... 16
- CN1 1 ... 16
- 坐标原点 (0,0)
- 分辨率: 16384*16384
- R G B
- 480 x RGB x 272
- Pull tape
- Black Printing
- 4-R3.00
- 4-R0.50

Side view:
- 4.63±0.5
- 2.95
- 1.60 (PCB)
- 12.45 MAX
- 2-2.0 MAX

Right view:
- 2-2.50±0.5
- 4-3.00
- 4-3.00
- 2-14.35±0.5
- 2-60.80
- 2-P2.54*15=38.10±0.25
- CN1 1 ... 16
- CN2 1 ... 16
- CN4 1 10
- CN5 40 ... 1
- IC

CN1		CN2	
PIN	SYMBOL	PIN	SYMBOL
1	GND	1	NC
2	NC	2	NC
3	NC	3	NC
4	VDD_5V	4	NC
5	GND	5	NC
6	NC	6	NC
7	NC	7	NC
8	VDD_5V	8	NC
9	NC	9	NC
10	NC	10	GND
11	GND	11	JTAG_SWDO
12	GND	12	NRST
13	CAN_Low	13	JTAG_SWDI
14	CAN_High	14	GND
15	GND	15	JTAG_SWCLK
16	+5V	16	VDD3V

1	Lcd Type	TFT
2	Viewing Angle	80/80/80/80
3	Surface	Glare
4	Screen size	4.3"(diagonal)
5	Display format	480 x RGB x 272
6	Operating Temperature	-30°C ~80°C
7	Storage Temperature	-30°C ~80°C
8	Active area	95.04(H) x 53.856(V) mm
9	Pixel pitch	0.198(H) x 0.198(V) mm
10	Color arrangement	RGB-STRIPE
11	Brightness	300min. 400typ. cd/m2
12	CTP IC	ILI2130 or equivalent
13	CTP Resolution	16384*16384

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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	VCC	4.5	5	5.5	V
Supply Current	ICC	-	330		mA

BOM

Item	Description
LCM	RFE43AW-AWW-DNG
PCBA	SV10004R300WA00N0100

Interface

CN1 definition:

Pin	Symbol	Function	Remark
1	GND	GND	Output
2-3	NC		
4	+5V	+5V	Output
5	GND	GND	Output
6-7	NC		
8	+5V	+5V	Output
9-10	NC	Connection	
11	GND	GND	Output
12	GND	GND	Output
13	CAN_L	Differential signal D-	I/O
14	CAN_H	Differential signal D+	I/O
15	GND	Power supply GND input	Input
16	+5V	Power supply 5V input	Input

CN2 definition:

Pin	Symbol	Function	Remark
1-9	NC		-
10	GND	GND	Output
11	SYS_JTAG_SWO	Data pin for JTAG interface	I/O
12	NRST	Reset pin for JTAG interface	Input
13	SYS_JTAG_SWDIO	Data pin for JTAG interface	I/O
14	GND	GND for JTAG interface	Output
15	SYS_JTAG_SWCLK	CLK pin for JTAG interface	Input
16	VMCU	3.3V power for JTAG interface	Output

1.

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