



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



## **SPECIFICATION**

**MODEL NO. : WLOF00043000WGFAASA00**

### **Summary**

#### **4.3 Inch Smart Display (UART series) Feature**

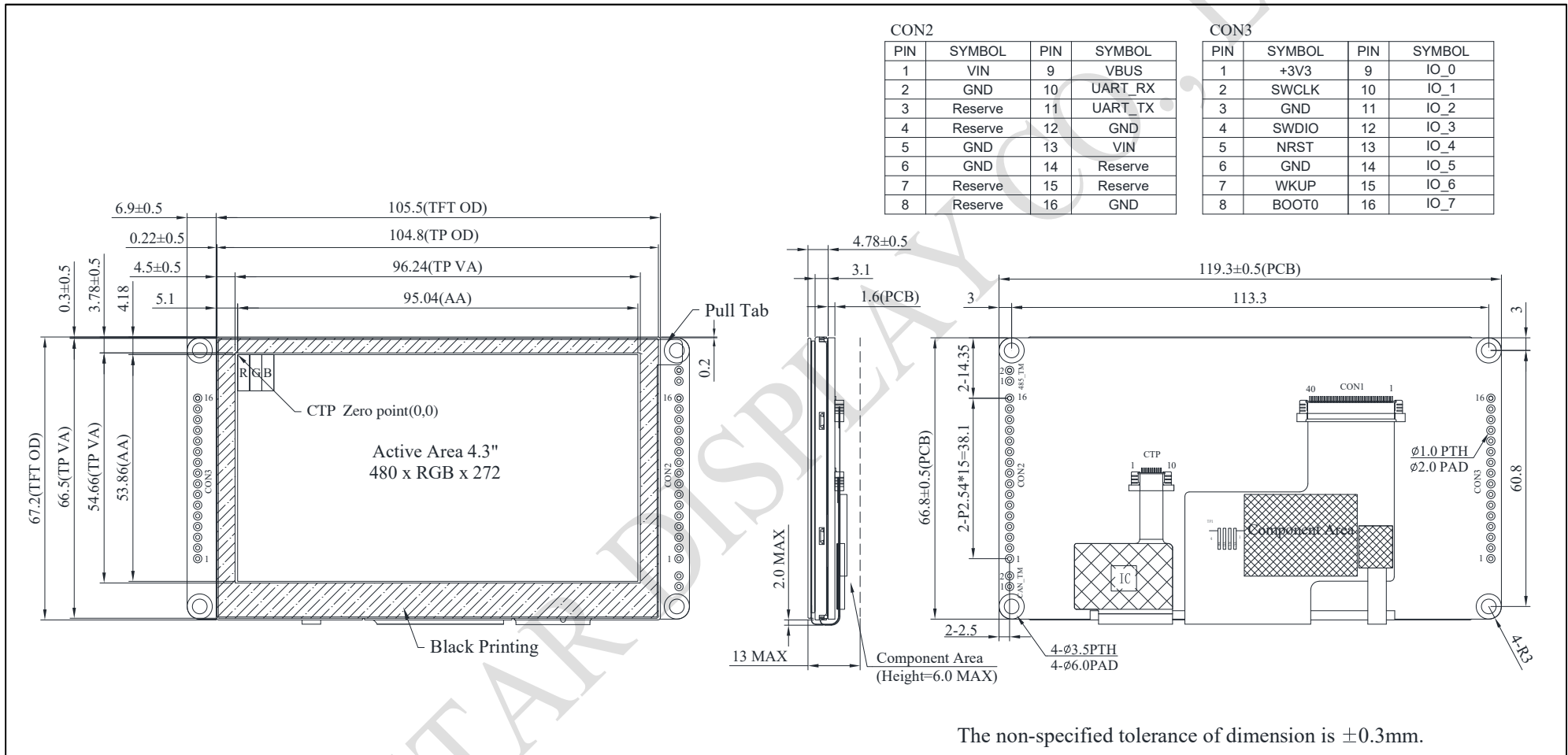
1. Input voltage dynamic range 5V to 28V, typical voltage 12V.
2. Self-testing after booting function.
3. UART communication interface.
4. Supports Proprietary UART protocol, default baud rate at 115200Kbps.
5. Built in flash memory, store the fonts and pictures.
6. Support capacitive touch panel (CTP).
7. Embedded buzzer function.
8. Demo set HOST can be used on multiple platforms, such as Computer (with USB to UART Dongle), MCU, Raspberry Pi (with PiCAN2).
9. GPIO PIN support. Supports 8 channel Bi-direction GPIOs with TTL 3.3V logic level. The setting functions through PC tools, Smart Display GUI Builder.

# Product information

## General information

Item	Standard Value	Unit
Operating voltage	5-28	Vdc
Communication Interface	UART	--
MCU	STM32F750	N/A
Flash Memory	16	MB
LCD display size	4.3	inch
Dot Matrix	480 × 3(RGB) × 272	dot
Module dimension	119.3(W) × 67.2(H) × 13 (D)	mm
Active area	95.04(W) × 53.856 (H)	mm
Pixel pitch	0.198(H) x 0.198(V)	mm
Brightness	Min: 300; Typ: 400	cd/m <sup>2</sup>
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	16:9	
Touch Panel	Capacitive Touch Panel	
Surface	Glare	

# Contour Drawing



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	°C
Storage Temperature	TST	-30	—	+80	°C
Supply Voltage	VIN			+30	V

## Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	VCC	5	12	28	V
Supply Current	ICC		180		mA
I/O pin Voltage	--	--	--	3.3	V

## BOM

Item	Description
LCM	WF43WTWAEDNGA#
PCBA	SV10004R300WB00N0101

# Interface

## CON2 definition:

Pin	Symbol	Function	Remark
16	GND	Power GND	Input
15	Reserved	--	--
14	Reserved	--	--
13	VIN	Power +5V~+28V	Input
12	GND	Power GND	Input
11	UART1_TX		output
10	UART1_RX		Input
9	VBUS	Power	Input
8	Reserved	--	--
7	Reserved	--	--
6	GND	Power GND	Input
5	GND	Power GND	Input
4	Reserved	--	--
3	Reserved	--	--
2	GND	Power GND	Input
1	VIN	Power +5V~+28V	Input

## CON3 definition:

Pin	Symbol	Function	Remark
16	IO_7	GPIO (PC5)	I/O
15	IO_6	GPIO (PC4)	I/O
14	IO_5	GPIO (PC1)	I/O
13	IO_4	GPIO (PF9)	I/O
12	IO_3	GPIO (PB5)	I/O
11	IO_2	GPIO (PB4)	I/O
10	IO_1	GPIO (PD5)	I/O
9	IO_0	GPIO (PD4)	I/O
8	BOOT0	--	Input
7	WKUP	Wake UP (PA0)	Input

6	GND	GND for SWD interface	Output
5	NRST	Reset pin for SWD interface	Input
4	SWDIO	Data pin for SWD interface	I/O
3	GND	GND for SWD interface	Output
2	SWCLK	CLK pin for SWD interface	Input
1	+3V3	3.3V power for SWD interface	Output

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