



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



## SPECIFICATION

**MODEL NO. : WLOF00043000WGAACSA00**

### Summary

#### 4.3 Inch Smart Display (Custom CAN ID series with GPIO) Feature

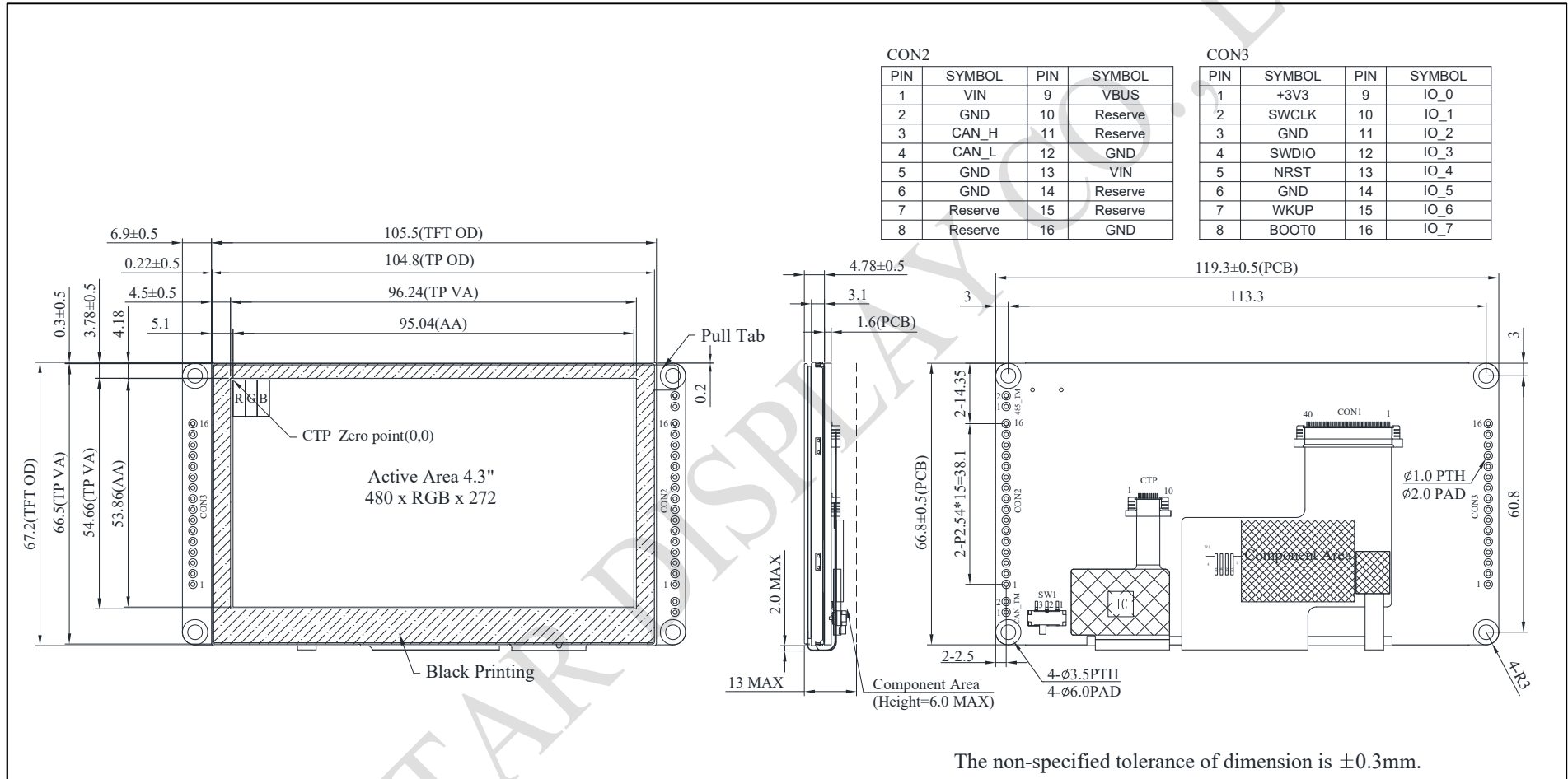
1. Input voltage dynamic range 5V to 28V, typical voltage 12V.
2. Self-testing after booting function.
3. CAN bus communication interface.
4. Supports Custom CAN ID protocol, default baud rate at 250Kbps.
5. Built in 16MB flash memory, store the fonts and pictures.
6. Support capacitive touch panel (CTP).
7. Embedded buzzer function.
8. Demo set HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).
9. 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	CAN Bus	--
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	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	SV10004R300WB00N0100

# Interface

## CON2 definition:

Pin	Symbol	Function	Remark
16-5	Reserved	--	--
4	CAN_L	CAN bus D-	I/O
3	CAN_H	CAN bus D+	I/O
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	Reversed	--	--
7	WKUP	Wake UP (PA0)	Input
6	Reversed	--	--
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

## CAN\_TM definition:

Pin	Status	Function	Remark
1	Open	Switch off terminal resistance 120Ω	Default
2	Short	Activate terminal resistance 120Ω	--