SMART DISPLAY SPECIFICATION



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SPECIFICATION

MODEL NO. : WL0F00039000QGAABSA00-FC

Summary

3.9 Inch Smart Display Feature

1. DC 5V working voltage, low power consumption for USB to drive.
2. Self testing after booting function.
3. CAN bus communication interface.
4. Support Custom CAN ID protocol. Default baud rate is 250Kbps.
5. Built in flash memory, store the font and Object Dictionary Data.
6. Support capacitive touch panel (CTP).
7. Embedded buzzer controlled by Master Device.
8. Demo set HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).

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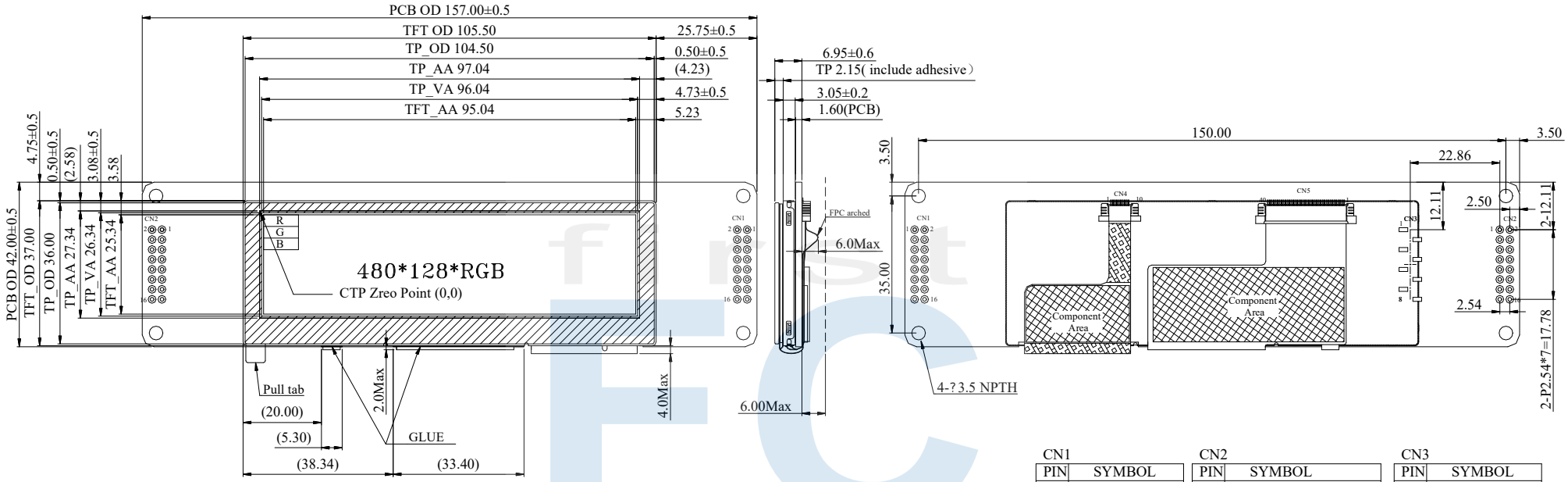
Product information

General information

Item	Standard Value	Unit
Operating voltage	5	Vdc
Communication Interface	CAN bus	Vpp
MCU	STM32F750	N/A
Flash Memory	16	MB
LCD display size	3.9	inch
Dot Matrix	480x128 x RGB (TFT)	dot
Module dimension	105.5(W) x 37.0(H) x 5.13	mm
Active area	95.04 x 25.34	mm
Dot pitch	0.066(W) x 0.198(H)	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	6 o'clock	
Aspect Ratio	Bar Type	
Touch Panel	With CTP	
Surface	Glare	

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Contour Drawing



CN1

PIN	SYMBOL
1	+5V
2	GND
3	GND
4	Reserve
5	CAN_H
6	Reserve
7	CAN_L
8	+5V
9	GND
10	Reserve
11	GND
12	Reserve
13	NC
14	Reserve
15	NC
16	Reserve

CN2

PIN	SYMBOL
1	Reserve
2	+3V3
3	Reserve
4	SWCLK
5	NC
6	GND
7	NC
8	SWDIO
9	NC
10	NRST
11	NC
12	SWO
13	GND
14	GND
15	+5V
16	Reserve

CN3

PIN	SYMBOL
1	Reserve
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC

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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-10	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For Analog	VCC	4.75	5	5.25	V
Interface Operation Voltage	ICC		350		mA

BOM

Item	Description
LCM	WF39-480128QD#007-FC
PCBA	SV100039000QA00N0105

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Interface

CN1 definition:

Pin	Symbol	Function	Remark
1	+5V	Power supply 5V input	Input
2	GND	GND for USART interface	Output
3	GND	Power supply GND input	Input
4	Reserve	-	-
5	CAN_H	CAN bus D+	I/O
6	Reserve	-	-
7	CAN_L	CAN bus D-	I/O
8	+5V	5V output for USART interface	Output
9	GND	GND for USART interface	Output
10	Reserve	-	
11	GND	GND for USART interface	Output
12	Reserve	-	-
13	NC	-	-
14	Reserve	-	-
15	NC	-	-
16	Reserve	-	-

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CN2 definition:

Pin	Symbol	Function	Remark
1	Reserve	-	-
2	+3V3	3.3V power for JTAG interface	Output
3	Reserve	-	-
4	SWCLK	CLK pin for JTAG interface	Input
5	NC	-	-
6	GND	GND for USART interface	I/O
7	NC	-	-
8	SWDIO	JTAG Serial Wire debug Data Input/Output interface	I/O
9	NC	-	-
10	NRST	Reset pin for JTAG interface	Input
11	NC		
12	SWO	Data pin for JTAG interface	I/O
13	GND	GND for USART interface	I/O
14	GND	GND for USART interface	I/O
15	+5V	Power supply 5V input	Input
16	Reserve	-	-

CN3 definition:

Pin	Symbol	Function	Remark
1	Reserve	-	-
2-8	NC	-	-

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