TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

MODEL NO. : WL0F0007000A8GAAASA00-FC

Summary

7 Inch Smart Display (CAN series) Features

1. +12V power supply input, the power consumption is around 6W.
2. Self testing after booting function.
3. CAN bus communication interface.
4. Support CANopen negotiation. Default baud rate is 250KB.
5. Embedded FLASH memory, storing Font and Object Dictionary.
6. Support capacitive touch panel (PCAP).
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).

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Product information

1. Mechanical Data

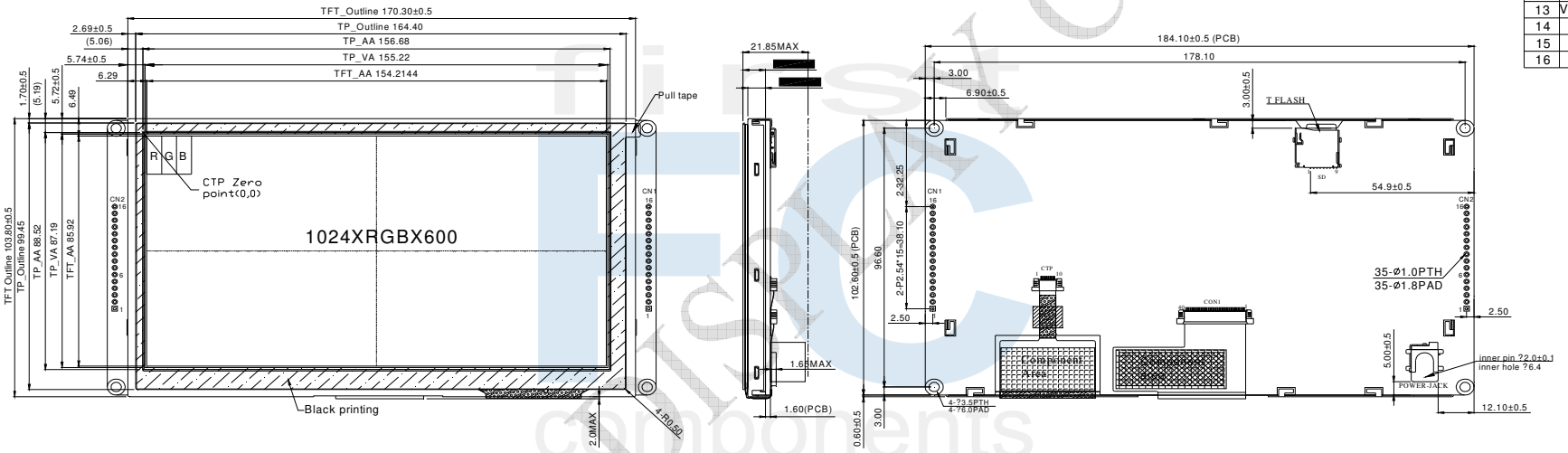
Item	Standard Value	Unit
LCD panel	169.9(W) x 103.4(H) x 5.6(D)	mm
PCB	184.1(W) x 102.6(H) x 1.6(D)	mm
Housing outline	184.1(W) x 102.6(H) x 21.85(D)	mm

2. General information

Item	Standard Value	Unit
Operating voltage	12	Vdc
Communication Interface	CAN bus differential ± 3.3	Vpp
LCD display size	7.0	inch
Dot Matrix	1024 x RGBx600(TFT)	dot
Module dimension	169.9(W) x 103.4(H) x 5.6(D)	mm
Active area	154.2144 x 85.92	mm
Dot pitch	0.1506 x 0.1432	mm
LCD type	LED, Normally White	
View Direction	85/85/85/85	
Aspect Ratio	16:9	
Touch Panel	With PCAP	
Surface	Glare	

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Contour Drawing



POWER JACK

PIN	SYMBOL
1	12V
2	GND
3	NC

2 — 1
(GND) (12V)

CN2

PIN	SYMBOL
1	VDD3V
2	JTAG_SWCLK
3	GND
4	JTAG_SWDIO
5	NRST
6	GND

CN1

PIN	SYMBOL
1	12V
2	GND
3	CAN_High
4	CAN_Low
5	GND
6	GND
7	NC
8	NC
9	VDD_3.9V
10	NC
11	NC
12	GND
13	VDD_3.9V
14	NC
15	NC
16	GND

1	Lcd Type	TFT
2	Viewing Angle	85/85/85/85
3	Surface	Glare
4	Screen size	7.0"(diagonal)
5	Display format	1024 X RGB X 600
6	Operating Temperature	-20°C ~70°C
7	Storage Temperature	-30°C ~80°C
8	Active area	154.2144(W) X 85.92(H)
9	Dot pitch	0.1506(W) X 0.1432(H)
10	Color arrangement	RGB-STRIPE
11	Brightness	400min. 500typ. cd/m2
12	CTP IC	ILI2130 or equivalent
13	CTP Resolution	16384*16384

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

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Analog	VCI	—	11.4	12	12.6	V
Interface Operation Voltage	IOVCC	—	3.234	3.30	3.367	V
Supply LCM current	ICI(mA)	-	-	-	502	mA

BOM

Item	Description
LCM	WF70***
PCBA	Design part for SMART070

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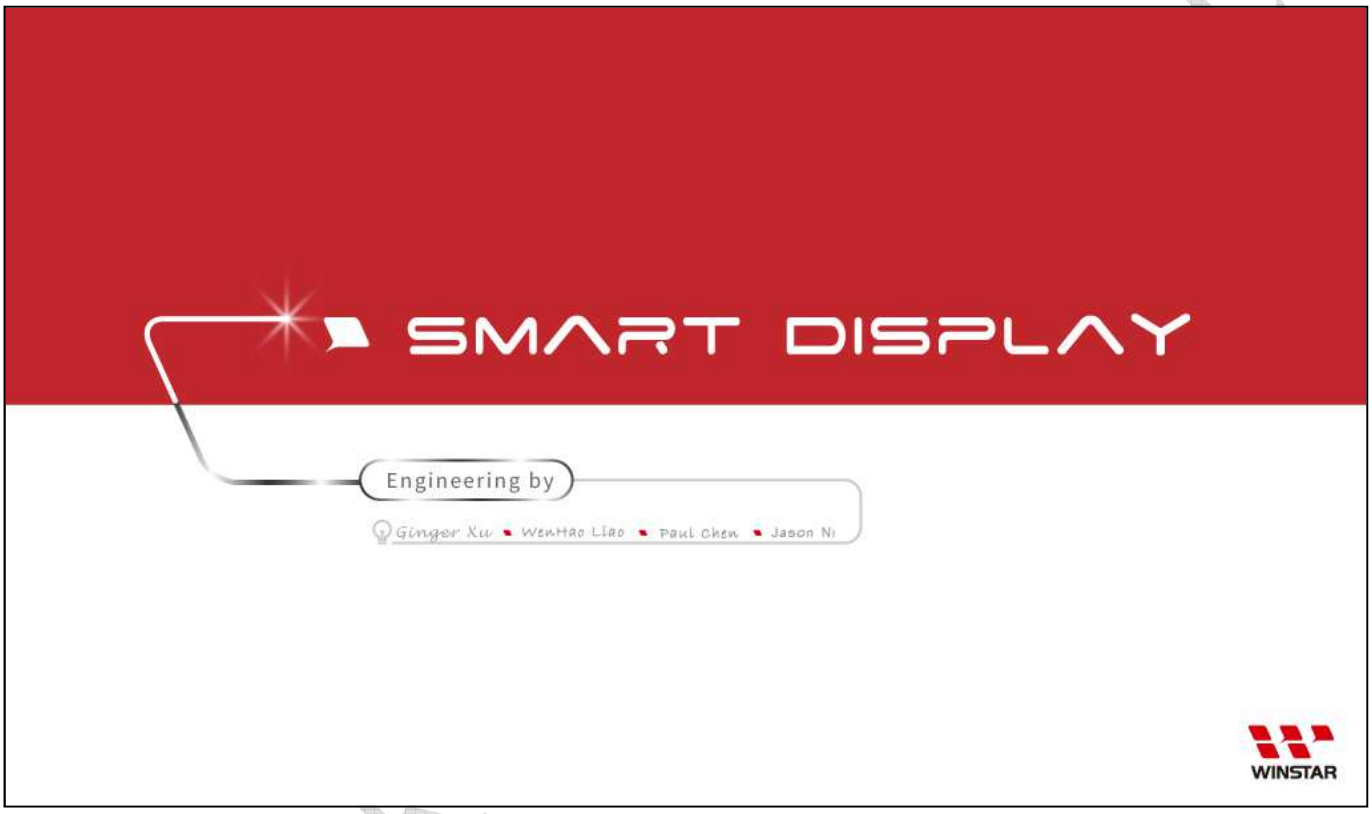
1	+12V	Power supply12V input	Input
2	GND	Power supply GND input	Input
3	CAN_High	CAN bus D+	I/O
4	CAN_Low	CAN bus D-	I/O
5	GND	Power supply GND input	Input
6	GND	Power supply GND input	Input
7	_	_	_
8	_	_	_
9	VDD_3.9V	3.9V	Power
10	_	_	_
11	_	_	_
12	GND	GND	GND
13	VDD_3.9V	3.9V	Power
14	_	_	_
15	_	_	_
16	GND	GND	GND

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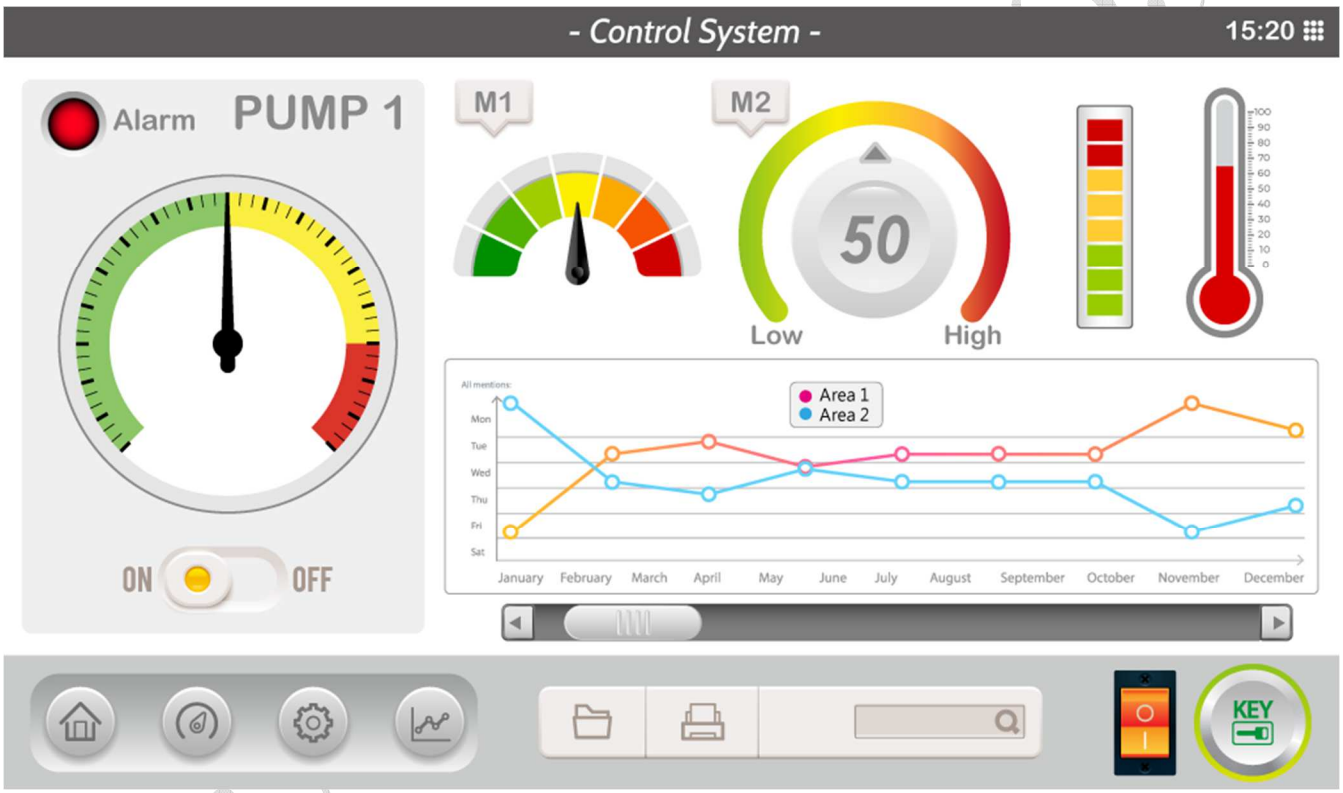
CON2 definition:

Pin	Symbol	Function	Remark
1	VDD3V	3.3V power for JTAG interface	Output
2	JTAG_SWCLK	CLK pin for JTAG interface	Input
3	GND	GND for JTAG interface	Output
4	JTAG_SWDIO	Data pin for JTAG interface	I/O
5	NRST	Reset pin for JTAG interface	Input
6	GND	GND	Output
7			
8			
9			
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16			

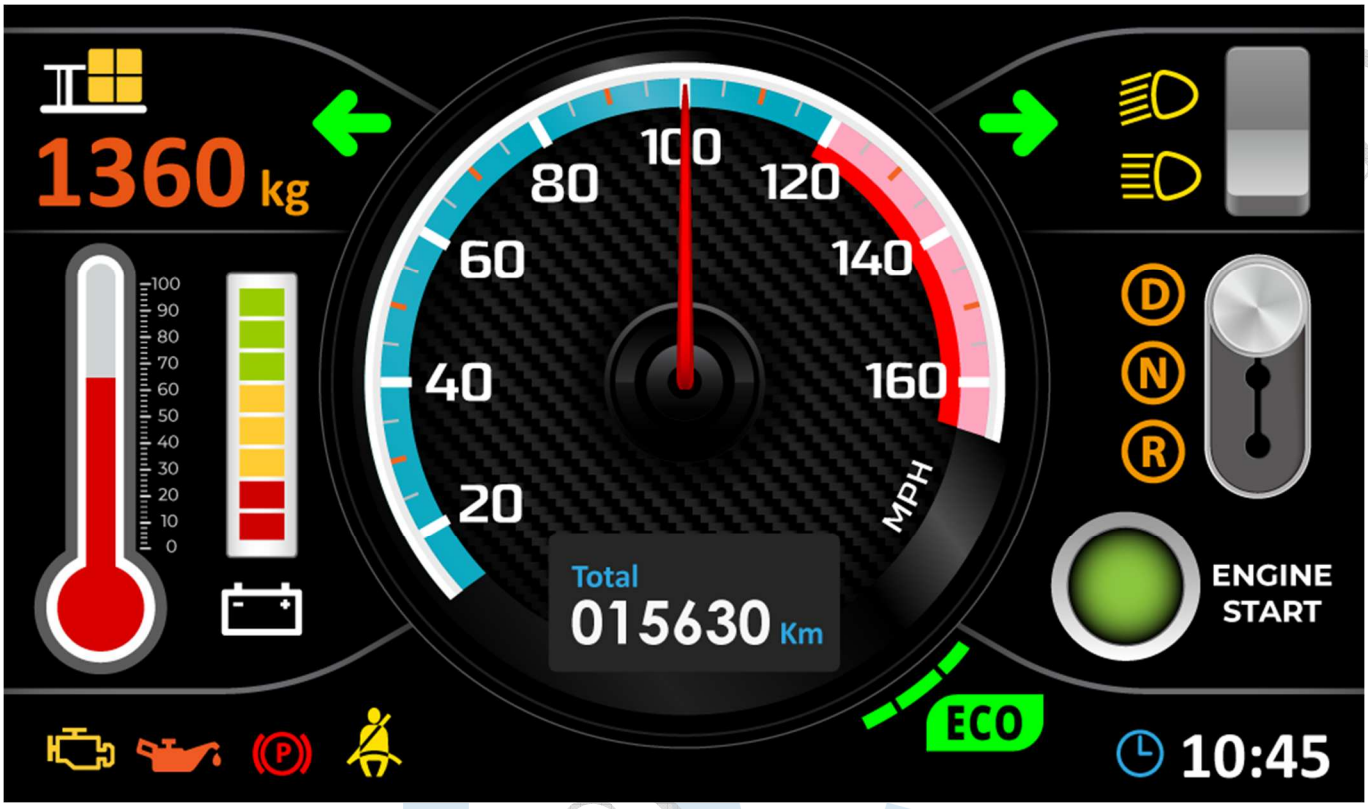
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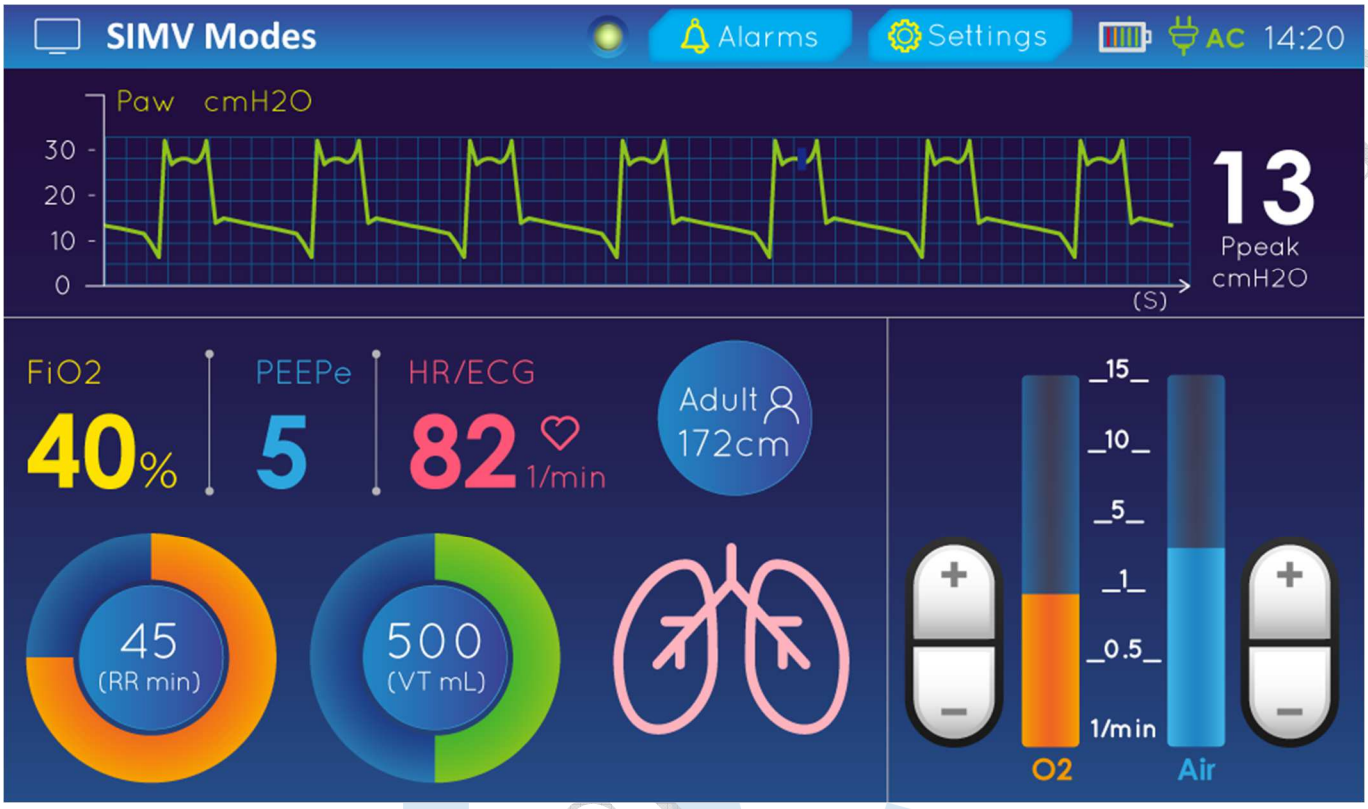
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