SMART DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

CUSTOMER : _____

MODEL NO. : WL0F0007000A8GAAFSK01-FC

APPROVED BY: (FOR CUSTOMER USE ONLY)	

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
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VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2025/11/04		First issue

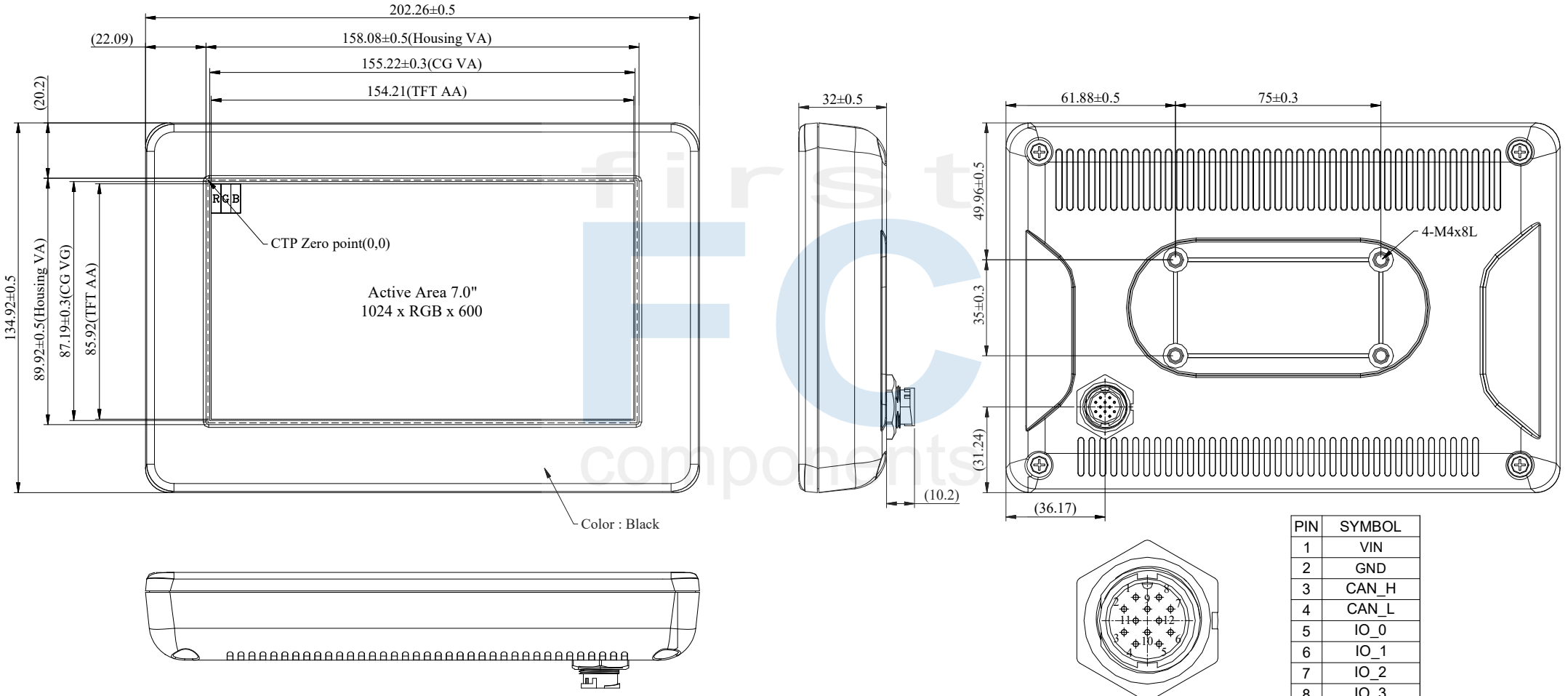
Product information

General information

Item	Standard Value	Unit
Operating voltage	8~35	Vdc
Communication Interface	CAN bus	--
MCU	STM32F746	N/A
Flash Memory	16	MB
SDRAM Memory	16	MB
LCD display size	7.0	inch
Dot Matrix	1024 x RGBx600(TFT)	dot
Module dimension	202.26(W) x 134.92(H) x 32(D)	mm
Active area	154.2144 x 85.92	mm
Pixel pitch	0.1506 x 0.1432	mm
Brightness	Min:800; Typ:850	cd/m^2
LCD type	TFT, Normally Black, Transmissive	
View Direction	85/85/85/85	
Aspect Ratio	16:9	
With /Without TP	With CTP	
Surface	Glare	

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Contour Drawing



Pin Assignments
Scale 2.5/1

PIN	SYMBOL
1	VIN
2	GND
3	CAN_H
4	CAN_L
5	IO_0
6	IO_1
7	IO_2
8	IO_3
9	IO_4
10	IO_5
11	IO_6
12	IO_7

Absolute Maximum Ratings

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

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above
1. Temp. ≦60℃, 90% RH MAX. Temp.＞60℃, Absolute humidity shall be less than 90% RH at 60℃

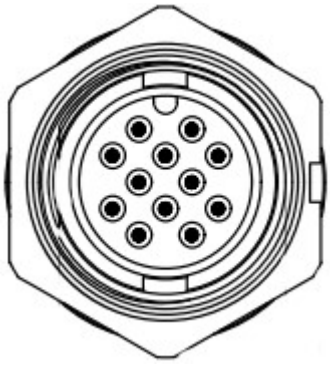
Electrical Characteristics

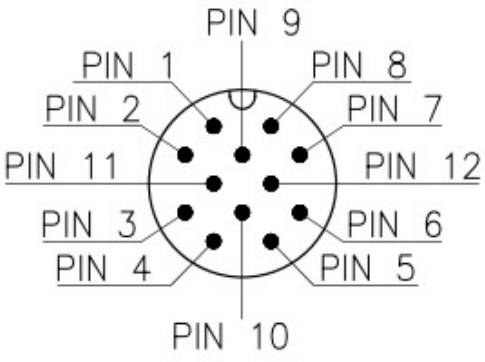
Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage	VIN	—	8	12	35	V
Operating current	I(mA)	—	—	595	—	mA

BOM

Item	Description	Remark
LCM	WF70-1024600A8L#BSP3-FC	
PCBA	SV10007R00A8K00N0103	

Interface





P1 PIN definition: WP-12M3-02-11 (WP B Size(M) 12PIN Front Lock)

Pin	Symbol	Function	Remark
1	VIN	Power supply +8V~35V	Input
2	GND	Power supply GND	Input
3	CAN_H	CAN bus D+	I/O
4	CAN_L	CAN bus D-	I/O
5	IO_0	ADC,DAC,Timer,Event,I/O @3.3V	I/O
6	IO_1	ADC,Timer,Event,I/O @3.3V	I/O
7	IO_2	ADC,Timer,Event,I/O @3.3V	I/O
8	IO_3	ADC,Timer,Event,I/O @3.3V	I/O
9	IO_4	ADC,Timer,Event,I/O @3.3V	I/O
10	IO_5	ADC,Timer,Event,I/O @3.3V	I/O
11	IO_6	ADC,Timer,Event,I/O @3.3V	I/O
12	IO_7	RST,ADC,Event,I/O @3.3V	I/O

@3.3V : I/O allow below 3.3V input, If exceeding 3.3V may cause MCU damage

