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

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SMART DISPLAY SPECIFICATION



Think good, Do good, Be good !

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SPECIFICATION

CUSTOMER	WINSTAR
MODEL NO.	WL0F0007000A8GFAASK00-FC
CURRENT VERSION	0
RELEASE DATE	2026/01/20

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
first FC components	Ginger Xu	Leo Liu	Debby Hsu

APPROVED BY: **(FOR CUSTOMER USE ONLY)**	

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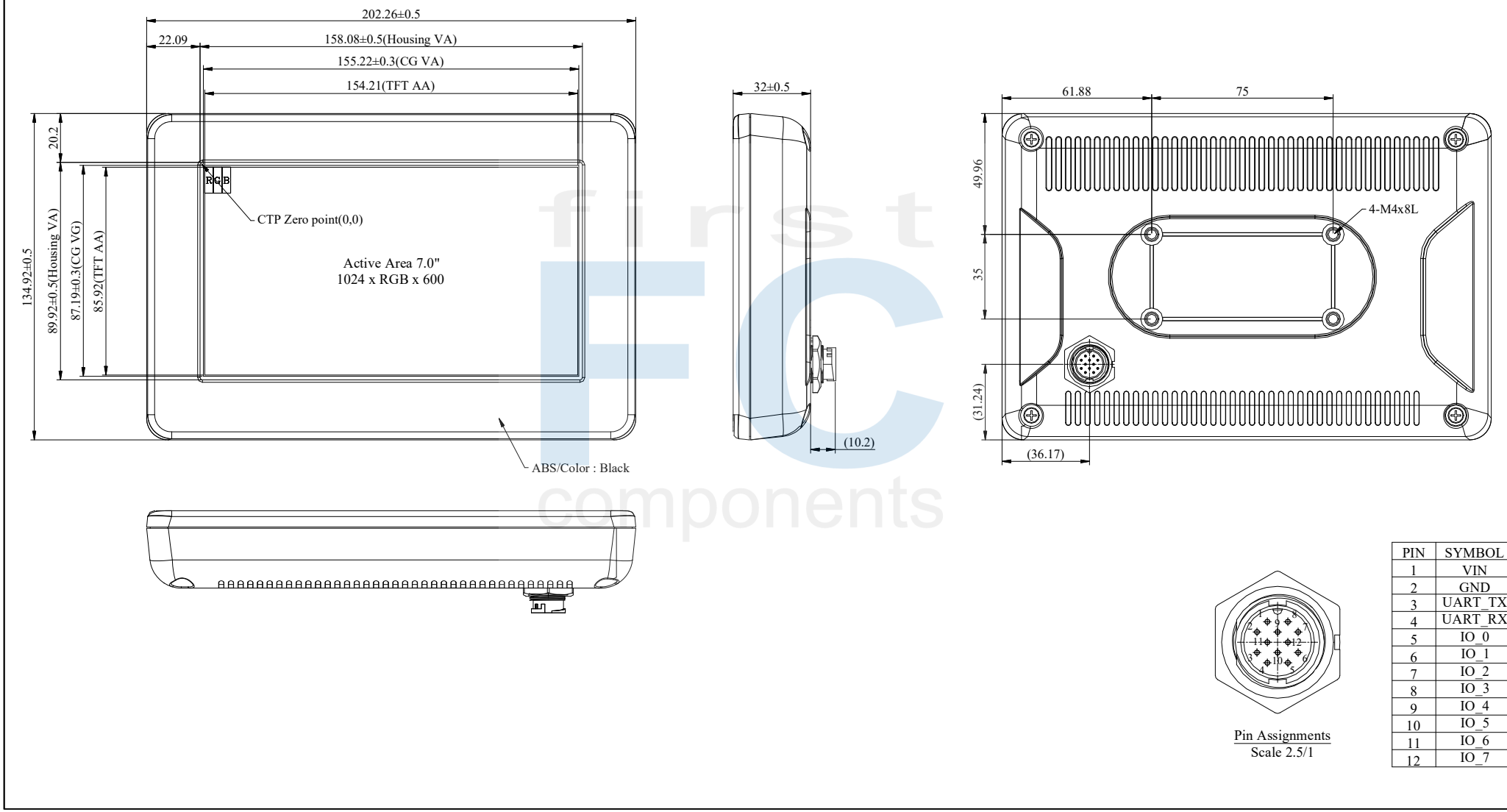
Product Information

General information

Item	Standard Value	Unit
Operating voltage	8V~35V dynamic	Vdc
Communication Interface	UART	Vpp
MCU	STM32F746	N/A
SDRAM	16	MB
Flash Memory	16	MB
LCD display size	7	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
Dot pitch	0.1506 x 0.1432	mm
Brightness	Min:400; Typ:450	
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	UART_TX
4	UART_RX
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℃

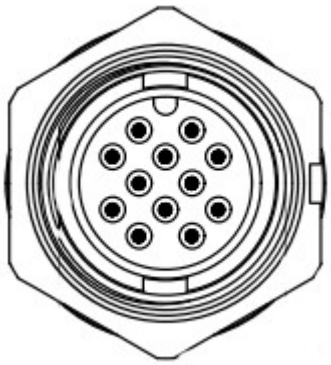
Electrical Characteristics

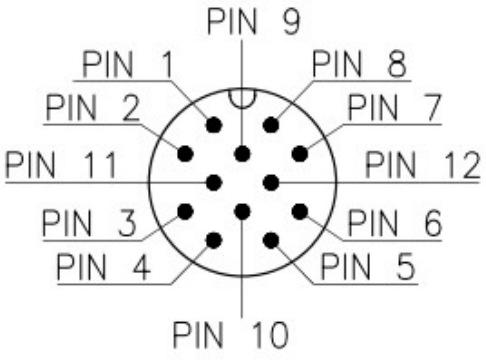
Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage	VCC	—	8	12	35	V
Supply LCM current	I(mA)	-	-	520	-	mA

BOM

Item	Description	Remark
LCM	WF70-1024600A8L#BP3-FC	
PCBA	SV10007R00A8K00N0106	

Interface





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

Pin	Symbol	Function	Remark
1	VIN	Power supply V+	Input
2	GND	Power supply GND input	Input
3	UART TX	UART TX	I/O
4	UART RX	UART RX	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

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