SMART DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.

華凌光電股份有限公司

SPECIFICATION

MODEL NO. : WLEP02566400DGAAASA00

Summary

Smart Display OLED 3.55" is an OLED type display with 256x64 resolution. Here are the summaries of the feature:

1. DC 5V working voltage.
2. Power-On Self-Test & Splash screen.
3. CAN bus Interface.
4. Supports CAN open protocol, default baud rate at 250KB.
5. Built in flash memory, store the font and Object Dictionary Data.
6. Supports CTP touch screen.
7. Can Smart Display is defined as a slave device, which is controlled by master device via CAN bus command to render display content on the display screen and return touch event data with protocol objects.
8. Built-in Buzzer is controlled from master device.

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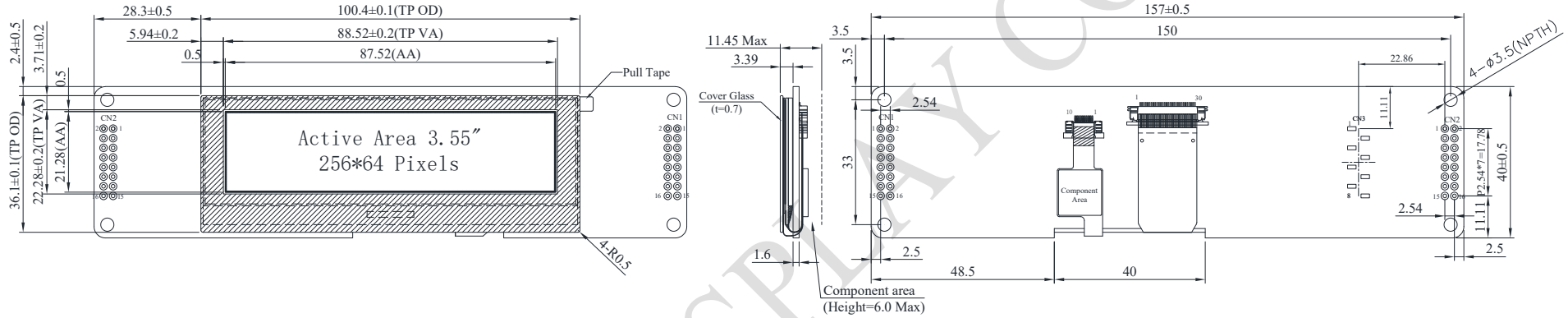
Product information

General information

Item	Standard Value	Unit
Operating voltage	5	Vdc
Communication Interface	CAN bus differential ± 3.3	Vpp
MCU	STM32F750	NA
Flash Memory	16	MB
SDRAM Frequency	108	MHz
Size	3.55	inch
Dot Matrix	256 x 64	pixel
Module dimension	157.0(W) x 40.0(H) x 11.45(D)	mm
Active area	95.04 x 53.856	mm
Dot pitch	0.342 x 0.333	mm
LCD type	OLED, White color, Passive Matrix	
Drive Duty	1/64 Duty	
Gray Scale	4 bits	
Touch Panel	With CTP	
Surface	Glare	

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Contour Drawing

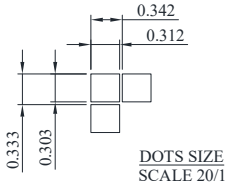


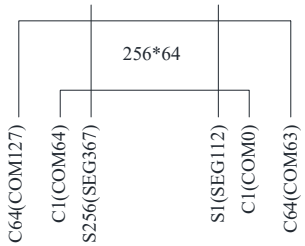
CN1

PIN	SYMBOL
1	+5V
2	DGND
3	GND
4	D-
5	CAN High
6	D+
7	CAN Low
8	+5V
9	GND
10	NC
11	GND
12	NC
13	NC
14	NC
15	NC
16	NC

CN2

PIN	SYMBOL
1	NC
2	VDD3V
3	NC
4	TAG_SWCLK
5	NC
6	GND
7	NC
8	TAG_SWDI
9	NC
10	NRST
11	NC
12	TAG_SWDO
13	DGND
14	DGND
15	+5V
16	NC





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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

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage	+5V	—	4.4	5	5.6	V
Supply Product current	I (mA)	—	355	425	500	mA

6. BOM

Item	Description
LCM	WEO025664DWPP3D00000
PCBA	SV102566400DA00N0100

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Interface

CN1 definition:

Pin	Symbol	Function	Remark
1	+5V	Power supply 5V input	Input
2	DGND	Reserved	Output
3	GND	Power supply GND input	Input
4	D-	Reserved	I/O
5	CAN High	CAN bus D+	I/O
6	D+	Reserved	I/O
7	CAN Low	CAN bus D-	I/O
8	+5V	Reserved	Output
9	DGND	Reserved	Output
10	NC	Reserved	
11	DGND	Reserved	Output
12	NC	Reserved	
13	NC	Reserved	
14	NC	Reserved	
15	NC	Reserved	
16	NC	Reserved	

CN2 definition:

Pin	Symbol	Function	Remark
1	NC	Reserved	
2	VDD3V		Input
3	NC	Reserved	
4	TAG_SWCLK		
5	NC	Reserved	
6	GND		
7	NC	Reserved	
8	TAG_SWDI		
9	NC	Reserved	
10	NRST		
11	NC	Reserved	
12	TAG_SWDO		
13	DGND		
14	DGND		
15	+5V		Input
16	NC	Reserved	

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