WINSTAR Display

OLED SPECIFICATION

Model No:

WWOLEDUSBDEMO-164#

Represented by:

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SPECIFICATION Version: A

CUSTOMER :
MODULE NO. : WWOLEDUSBDEMO-164#

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

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
RELEASE DATE:			

■ **APPROVAL FOR SPECIFICATIONS ONLY**

□**APPROVAL FOR SPECIFICATIONS AND SAMPLE**

MODEL NO：

RECORDS OF REVISION			DOC. FIRST ISSUE
VERSION	DATE	REVISED PAGE NO.	SUMMARY
0	2023/11/28		First release
A	2023/12/14		1.Modify General Specification 2.Add model location diagram

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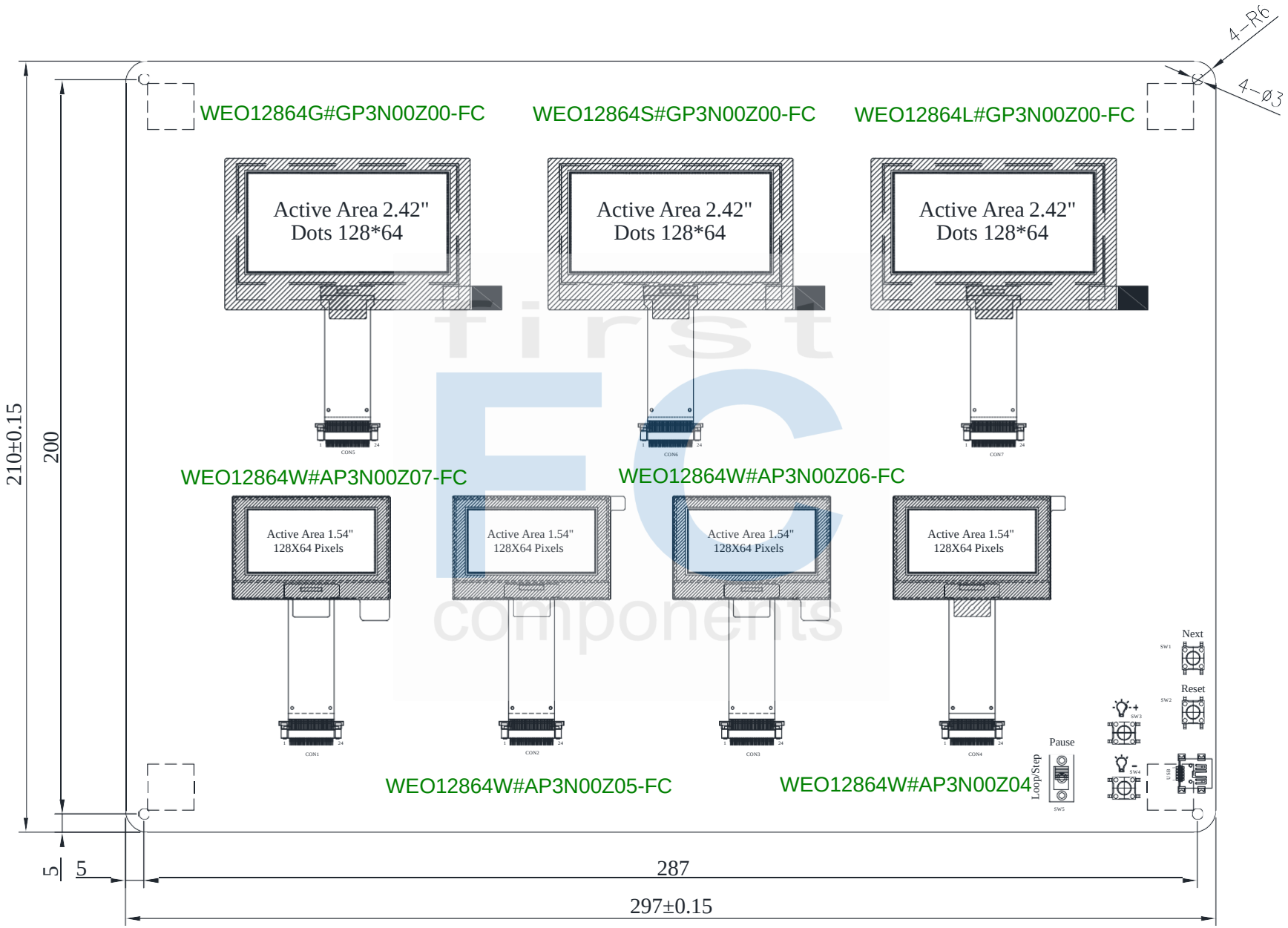
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1.General Specification

Item	Module	Note
2.42” 128*64	WEO12864G#GP3N00Z00-FC	Winstar Mirror Cover (Green)
2.42” 128*64	WEO12864S#GP3N00Z00-FC	Winstar Mirror Cover (Sky Blue)
2.42” 128*64	WEO12864L#GP3N00Z00-FC	Winstar Mirror Cover (Yellow)
1.54” 128*64	WEO12864W#AP3N00Z07-FC	Winstar Black Glass Cover Optical Bonding
1.54” 128*64	WEO12864W#AP3N00Z04-FC	Winstar Standard Cover Air Bonding
1.54” 128*64	WEO12864W#AP3N00Z05-FC	Winstar Standard Cover Optical Bonding
1.54” 128*64	WEO12864W#AP3N00Z06-FC	Winstar Black PMMA Cover Air Bonding

WEO12864W#AP3N00Z04-FC	WEO12864W#AP3N00Z06-FC	WEO12864W#AP3N00Z05-FC	WEO12864W#AP3N00Z07-FC
1.54"	1.54"	1.54"	1.54"
90% Transparent Cover Glass	20% BMMA Cover Glass	90% Transparent Cover Glass	40% Black Cover Glass
Air Bonding	AIR Bonding	Optical Bonding	Optical Bonding
43.04 × 28.22 × 2.66 (mm)	43.04 × 28.22 × 2.59 (mm)	43.04 × 28.22 × 2.69 (mm)	43.04 × 28.22 × 3.39 (mm)
Cover Glass Thickness: 1.1mm	Cover Glass Thickness:1.0mm	Cover Glass Thickness: 1.1mm	Cover Glass Thickness: 1.8mm
Brightness: 120 cd/m2	Brightness: 50 cd/m2 (Because the OLED brightness is adjusted through FW, the brightness after cover bonded has not dropped too much)	Brightness: 120 cd/m2	Brightness: 90 cd/m2 (Because the OLED brightness is adjusted through FW, the brightness after cover bonded has not dropped too much)
Integrated Black Panel (IBP) Effects: Poor	Integrated Black Panel (IBP) Effects: Good	Integrated Black Panel (IBP) Effects: Poor	Integrated Black Panel (IBP) Effects: Very Good
Price Level: Low	Price Level: OK	Price Level: High	Price Level: Highest
Recommended for the customers who have no requirement of IBP effects	1. Recommended for the customers who have extremely high requirements on visual effects quality 2. transmittance of Cover Glass is the lowest	Recommended for the customers who have no requirement of IBP effects	1. Recommended for the customers who have extremely high requirements on visual effects quality 2. transmittance of Cover Glass is low

2. Contour Drawing & Block Diagram



3.Interface Description

3.1. Component explain

Parts Location	Function explanation	Remarks
USB	+5V power supply from adaptor or Notebook/PC	—
SW1	Step Control Function(Switch to the next image)	—
SW2	Reset Function	—
SW3	High Brightness	—
SW4	Low Brightness	—
SW5	Loop/Step Mode Function switch	—

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4.Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
USB Supply Voltage	VDD	0	5.5	V	1
Operating Temperature	TOP	-20	+60	°C	—
Storage Temperature	TSTG	-30	+70	°C	—

Note 1: All the above voltages are on the basis of “VSS = 0V”.

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5.Electrical Characteristics

5.1 DC Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYPICAL	MAX.	UNIT
USB Supply voltage	VDD-VSS	—	4.7	5	5.3	V
VDD Supply Current	IDD	—	2	—	3	A

5.2. Module Dimensions Characteristics

NO	ITEM	Remark
1.	DEMO BOARD PCB + OLED Module	297*210 (mm)

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