# **OLED DISPLAY SPECIFICATION**





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#### **REN025664D-CTP**

#### **General Specification**

■ Module dimension:147.0 × 59.0 × 4.8 mm

Active area: 135.65 x 33.89 mm

Dot Matrix: 256 × 64
 Dot Size: 0.5 × 0.5 mm
 Dot Pitch: 0.53 × 0.53mm

■ Display Mode: Passive Matrix

■ Duty: 1/64

Gray Scale: 4 bits

■ Display Color: Monochrome

■ OLED IC: SSD1322

■ OLED Interface: 6800,8080,SPI

Size: 5.5 inchCTP IC: GT911Detect Point:1

CTP Interface: I2C

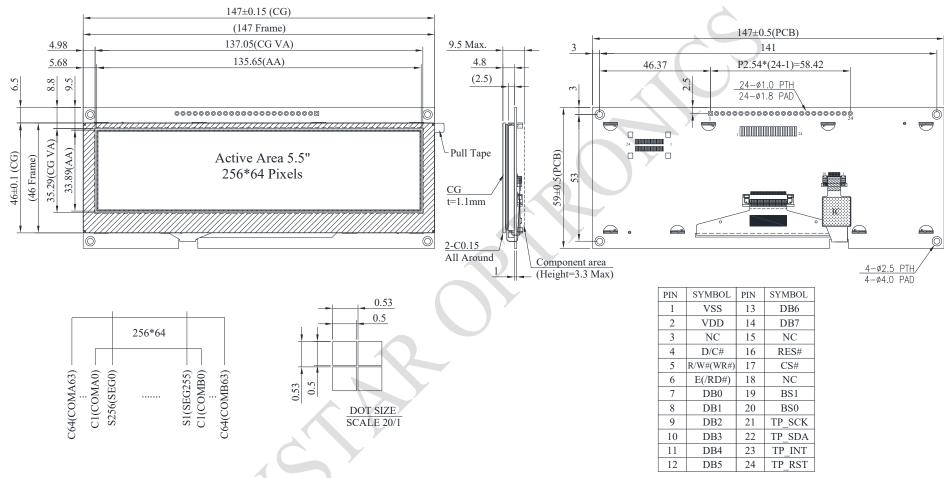
Surface: Normal Glare

#### **Interface Pin Function**

Pin No.	Symbol	I/O	Function					
1	VSS	P	Ground.					
2	VDD	Р	Power Supply for Core Logic Circuit  Power supply pin for core logic operation. A capacitor is required					
			to connect between this pin and VSS					
		P	Reserved Pin					
3	N.C.		The N.C. pin between function pins are reserved for compatible and flexible design.					
4	D/C#	I	Data/Command Control This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the content at D[7:0] will be interpreted as data. When the pin is pulled LOW, the content at D[7:0] will be interpreted as command.					
5	R/W# (WR#)	I	Read/Write Select or Write  This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Pull this pin to "High" for read mode and pull it to "Low" for write mode.  When 80XX interface mode is selected, this pin will be the Write (WR#) input. Data write operation is initiated when this pin is pulled low and the CS# is pulled low.  When serial mode is selected, this pin must be connected to VSS.					
6	E/RD#	ľ	Read/Write Enable or Read  This pin is MCU interface input.  When interfacing to a 68XX-series microprocessor, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled high and the CS# is pulled low.  When connecting to an 80XX-microprocessor, this pin receives the Read (RD#) signal. Data read operation is initiated when this pin is pulled low and CS# is pulled low.  When serial mode is selected, this pin must be connected to VSS.					
	DB0							
	DB1	I/O	Hoot Data Innut/Outnut Pro					
7~14	DB2		Host Data Input/Output Bus These pins are 8-bit bi-directional data bus to be connected to					
	DB3		the microprocessor's data bus.					
	DB4		When serial mode is selected, D1 will be the serial data input					
	DB5		SDIN and D0 will be the serial clock input SCLK.					
	DB6		·					
	DB7							
15	NC	P	<b>Reserved Pin</b> The N.C. pin between function pins are reserved for compatible and flexible design.					
16	RES#	I	This pin is reset signal input.					

			When the pin is pulled LOW, initialization of the chip is				
			executed.				
			Keep this pin pull HIGH during normal operation.				
17	CS#	Ι	Data/Command Control This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW.				
18	NC	P	Reserved Pin The N.C. pin between function pins are reserved for compatible and flexible design.				
19	BS1		Communicating Protocol Select				
	BS0	I	These pins are MCU interface selection input. See the following table:  BS[1:0] Bus Interface Selection				
20			00 4 line SPI				
			01 3 line SPI				
			10 8-bit 8080 parallel				
			11 8-bit 6800 parallel				
21	TP_SCK	I	I2C clock input				
22	TP_SDA	I	I2C data input and output				
23	TP_INT	I	External interrupt to the host				
24	TP_RST	I	External Reset, Low is active				

### **Contour Drawing**



The non-specified tolerance of dimension is  $\pm 0.3 \text{ mm}$ .

## **Absolute Maximum Ratings**

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Display	VDD	-0.3	4	V
Operating Temperature	TOP	-20	70	°C
Storage Temperature	TSTG	-30	80	°C

#### **Electrical Characteristics**

#### **DC Electrical Characteristics**

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD	-	2.8	3.0	3.3	V
High Level Input	VIH	(-	0.8×VDD	_	VDD	V
Low Level Input	VIL		0	_	0.2×VDD	V
High Level Output	VOH	<b>Y</b> -	0.9×VDD	_	VDD	V
Low Level Output	VOL	-	0	_	0.1×VDD	V
50% Check Board operating Current	IDD	VDD =3V	_	240	400	mA