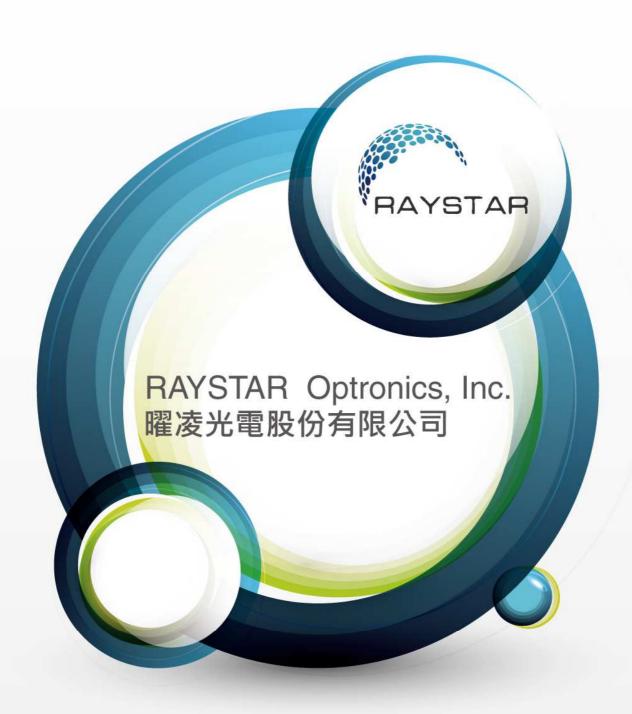
OLED DISPLAY SPECIFICATION





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SPECIFICATION

Model No: REX012864V

General Specification

The Features is described as follow:

■ Module dimension: 24.74 x 16.90 x 1.26 mm

Active area: 21.74 x 10.86 mm

■ Dot Matrix: 128 x 64

Dot size: 0.15 x 0.15 mmDot pitch: 0.17 x 0.17 mm

Display Mode: Passive Matrix

■ Duty: 1/64 Duty

Display Color: OLED, Monochrome

■ Controller IC: SSD1315

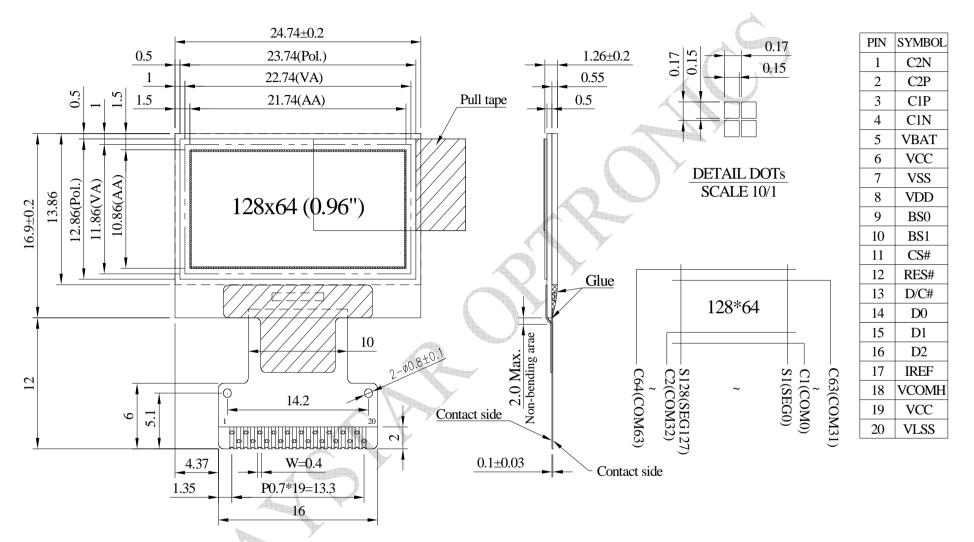
Interface: SPI,I2CSize: 0.96 inch

Interface Pin Function

No.	Symbol	Function				
1	C2N	C2P/C2N – Pin for charge pump capacitor; Connect to each other with a				
2	C2P	capacitor.				
3	C1P	C1P/C1N – Pin for charge pump capacitor; Connect to each other with a				
4	C1N	capacitor.				
		Power Supply for DC/DC Converter Circuit				
5	VBAT	This is the power supply pin for the internal buffer of the DC/DC voltage converter. It must be connected to external source when the converter is used. It should be float when the converter is not used.				
		Power supply for panel driving voltage. This is also the most positive				
6	vcc	power voltage supply pin.				
		When charge pump is enabled, a capacitor should be connected between this pin and VSS.				
7		Ground of Logic Circuit				
	VSS	This is a ground pin. It acts as a reference for the logic pins. It must be				
		connected to external ground.				
8	VDD	Power Supply for Logic				
		This is a voltage supply pin. It must be connected to external source.				
	DCO	Communicating Protocol Select				
9	BS0	These pins are MCU interface selection input. See the				
		following table:	Interfoce			
	BS1	BS[1:0] 00	Interface 4-line SPI			
10		01	3-line SPI			
		10	I2C			
		Chip Select	120			
11	CS#	•	chin is enabled for MCII			
11	US#	This pin is the chip select input. The chip is enabled for MCU communication only when CS# is pulled low.				
		Power Reset for Controller and Driver				
12	RES#	This pin is reset signal input. When the pin is low, initialization of the chip				
12		is executed.				
	4	In I2C mode, this pin acts as SA0 for	r slave address selection.			
13	D/C#	When 3-wire serial interface is selected, this pin must be connected to				
		VSS.				
	X . **	When serial interface mode is selected, D0 will be the serial clock input:				
14 16	D0~D2	SCLK; D1 will be the serial data input: SDIN.				
14~10		When I2C mode is selected, D2, D1 should be tied together and serve as				
)	7	SDAout, SDAin in application and D0 is the serial clock input, SCL.				
		Current Reference for Brightness Adjustment				
17		This pin is segment current reference pin. A resistor should be connected				
		between this pin and VSS. Set the current lower than 30uA.				

18	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.	
		A capacitor should be connected between this pin and VSS.	
19	VCC	Power supply for panel driving voltage. This is also the most positive	
		power voltage supply pin.	
		When charge pump is enabled, a capacitor should be connected	
		between this pin and VSS.	
20		Ground of Analog Circuit	
		This is an analog ground pin. It should be connected to VSS externally.	

Contour Drawing & Block Diagram



The non-specified tolerance of dimension is ± 0.3 mm.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4.0	V
Charge Pump Regulator	VBAT	-0.3	6.0	V
Supply Voltage for Display	VCC	0	18.0	V
Operating Temperature	TOP	-30	+70	°C
Storage Temperature	TSTG	-30	+70	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit	
Supply Voltage for Logic	VDD		2.8	3.0	3.3	٧	
Supply Voltage for Display	VCC	_	7.0	7.5	8.0	V	
Input High Volt.	VIH		0.8×VDD		VDD	٧	
Input Low Volt.	VIL	_	0	_	0.2×VDD	V	
Output High Volt.	VOH		0.9×VDD		VDD	٧	
Output Low Volt.	VOL	_	0	_	0.1×VDD	V	
Operating Current for VCC (50% display ON)	ICC	_	_	6	12	mA	