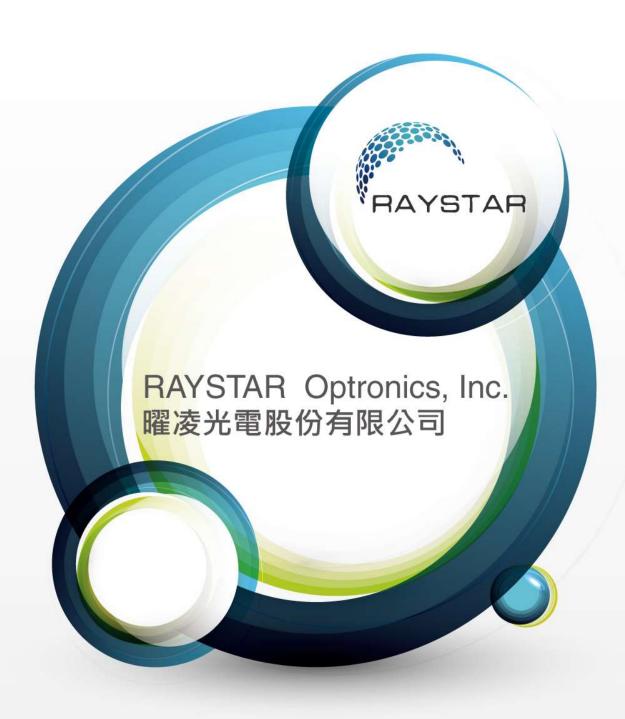
OLED DISPLAY SPECIFICATION





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REH012864Q

General Specification

Dot Matrix: 128 x 64

Module dimension: 89.7 x 47.2 x 3.4 mm

Active Area: 61.41 x 30.69 mm

Pixel Size: 0.45 x 0.45 mm

Pixel Pitch: 0.48 x 0.48 mm

Display Mode: Passive Matrix

Display Color: Monochrome

Drive Duty: 1/64 Duty

IC: SSD1309

Interface: I2C, SPI,6800, 8080

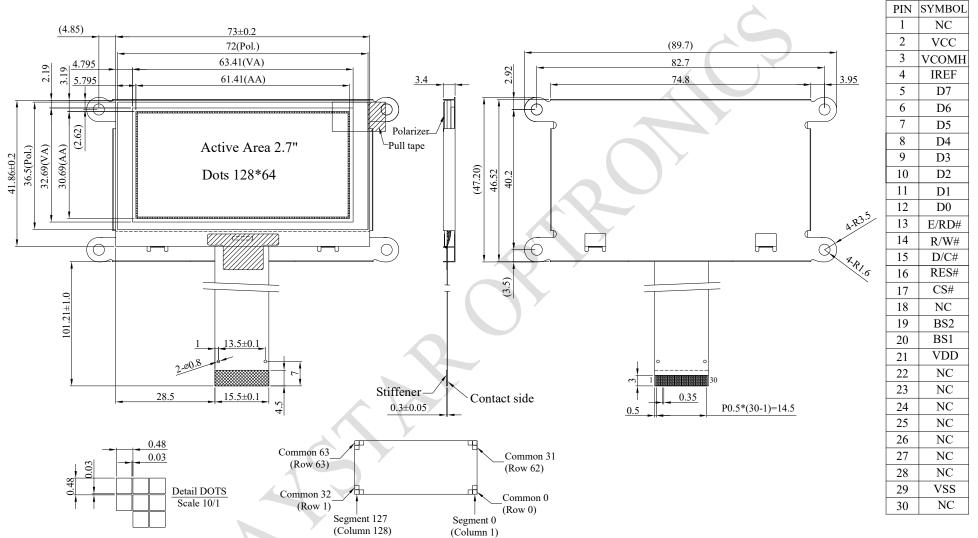
Size: 2.7 inch

Interface Pin Function

No.	Symbol	Function			
1	NC	No connection			
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.			
3	VCOMH	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.			
4	IREF	This pin is the segment output current reference pin. IREF is supplied externally.			
5~12	D7~D0	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW. When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN and D2 should be kept NC. When I2C mode is selected, D2, D1 should be tied together and serve as SDAout, SDAin in application and D0 is the serial clock input, SCL.			
13	E/RD#	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected. When 8080 interface mode is selected, this pin receives the Read (RD#) signal. Read operation is initiated when this pin is pulled LOW and the chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS.			
14	R/W#	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW. When 8080 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 chip is selected. When serial or I2C interface is selected, this pin must be connected to VSS. This pin is Data/Command control pin connecting to the MCU.			
15	D/C#	When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register. In I2C mode, this pin acts as SA0 for slave address selection. When 3-wire serial interface is selected, this pin must be connected to VSS.			
16	RES#	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.			

		1					
	CS#	This pin is the chip select input connecting to the MCU.					
17		The chip is enabled for MCU communication only when CS# is pulled					
		LOW (active LOW).					
18	NC	No connection					
	BS2 BS1	MCU bus interface selection pins. Select appropriate logic setting as					
19		described in the following table. BS2 and BS1 are pin select					
			BS1	BS2			
		12C	1	0			
		4-wire Serial	0	0			
		8-bit 68XX Parallel	0	1			
20		8-bit 80XX Parallel	1	1			
		Note					
		(1) 0 is connected to VSS					
		(2) 1 is connected to	o VDD				
21	VDD	Power supply pin for core logic operation					
22~28	NC	No connection					
29	VSS	Ground.					
30	NC	No connection			Y		

Contour Drawing



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Supply Voltage for Display	VCC	0	17	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°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
Supply Voltage for Display	VCC	-	12.5	13.0	13.5	V
High Level Input	VIH	_	0.8×VDD	_	_	V
Low Level Input	VIL	_	_	_	0.2×VDD	V
High Level Output	VOH	_	0.9×VDD	_	_	V
Low Level Output	VOL	_	_	_	0.1×VDD	V
50% Check Board operation	VCC =13.0V	_	22	33	mA	