

Osptek Display

OLED SPECIFICATION

Model No:

ODM096-12864W102-P4

osptek[®]

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64 Dots	-
Module dimension	27.5 x 27.8 x 2.61	mm
Active Area	21.744 x 10.864	mm
Pixel Size	0.15 x 0.15	mm
Pixel Pitch	0.17 x 0.17	mm
Display Mode	Passive Matrix	
Display Color	White	
Drive Duty	1/64 Duty	
Frame rate	105Hz	
IC	SSD1306	
Interface	I2C	
Size	0.96 inch	



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Contour Drawing & Block Diagram

All Pages Of This Edition Approved		REV.	DESCRIPTION	REVISED	DATE
Signature: _____		A0	First	liujiaqian	2019-3-7
Date: _____					

PIN	SYMBOL
1	NC(GND)
2	C2P
3	C2N
4	C1P
5	C1N
6	VBAT
7	NC
8	VSS
9	VDD
10	BS0
11	BS1
12	BS2
13	CS#
14	RES#
15	D/C#
16	R/W#
17	E#
18	D0
19	D1
20	D2
21	D3
22	D4
23	D5
24	D6
25	D7
26	REF
27	VCOMH
28	VCC
29	VSS
30	NC(GND)

PIN	SYMBOL
1	VSS
2	VDD
3	SCL
4	SDA

深圳市鱼鹰光电科技有限公司
Shenzhen Osprey Optoelectronics Technology Co., Ltd.

Unspecified Tolerance:	±0.20	UNITS: mm	DATE:	2019-3-7	MODEL NUMBER :	
DESIGN BY:	LIUJIAQIAN	CHECKED BY:			ODM0096-12864W102-P4	
APPROVED BY:					DO NOT SCALE THIS DRAWING.	

Specifications:

- Display : OLED(White).
- Drive Method: VCC=3.3V~4.2V
- Dot Matrix: 128*64
- Dot Size: 0.15*0.15mm
- Dot Pitch: 0.17*0.17mm
- Aperture Rate: 78%
- Active Area : 21.74*11.2mm
- Drive IC: SSD1306
- Requirements On Environmental Protection: RoHS

PROJECTION	SHEET:	1 OF 1
SCALE:	1 : 1	

Interface Pin Function

No.	Symbol	Function
1	VSS	Ground of Logic Circuit This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.
2	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.
3	SCL	IIC Bus Clock Signal The transmission of information in the I2C bus is following a clock signal. Each transmission of data bit is taken place during a single clock period of this pin.
4	SDA	I2C Bus Data Signal This pin acts as a communication channel between the transmitter and the receiver.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	3.3	4.2	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic(3V/5V)	VDD	-	3.3	-	4.2	V
Input High Volt.	VIH	-	0.8xVCC	-	VCC	V
Input Low Volt.	VIL			-	0.2xVCC	V
Output High Volt.	VOH	-	0.9xVCC	-	VCC	V
Output Low Volt.	VOL	-	0	-	0.1xVCC	V
50% Check Board operating Current	ICC	VCC=2.8V	-	160	220	mA

