0.96 Inch OLED Display Module with 128x64 Resolution and SPI Interface for Graphic Applications

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO90001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-47WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH

Product Specification

- Panel Type: TFT
- Display Color: White Blue Optional
- Touch Screen: Without Touch Screen (Optional)
- Screen Size: 0.96 Inches
- Connection: Soldering/Hotbar (customizable)
- Interface: 6800, 8080, SPI, I2C
- Resolution: 128x64 Graphics
- Technology: OLED
- Highlight: **0.96 Inch OLED Display**, **128x64 Resolution OLED Module**, **SPI Interface Graphic Display**

Our Product Introduction

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Product Description

0.96 Inch OLED Display Module 128x64

High-performance OEL graphic display module with multiple interface options and customizable features.

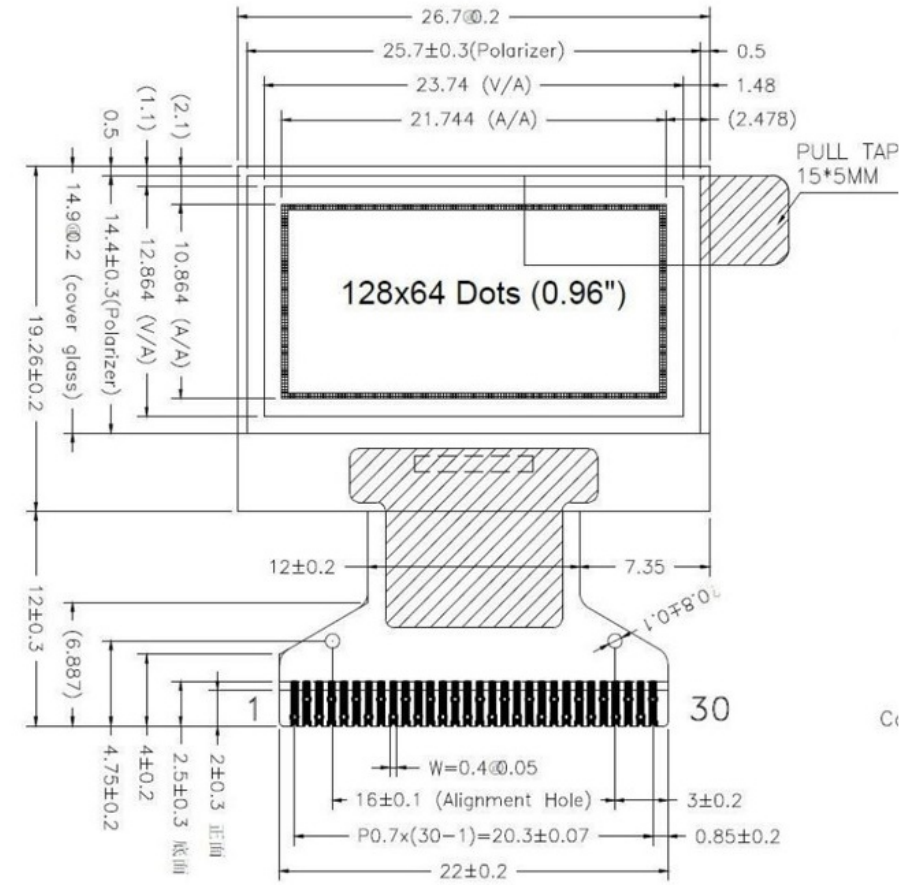
Product:	0.96 Inch OLED Display Module
Resolution:	128x64 Graphics
Driver IC:	SSD1306BZ Or Equivalent
Outline Dimensions:	26.7x19.26x1.41 mm
Display Color:	White Blue Optional
Touch Screen:	Without Touch Screen (Optional)
Viewing Direction:	All Viewing Angles
Interface:	6800, 8080, SPI, I2C
Connection:	Soldering/Hotbar (customizable)
Pin Number:	30 Pins (Can Be Customized)

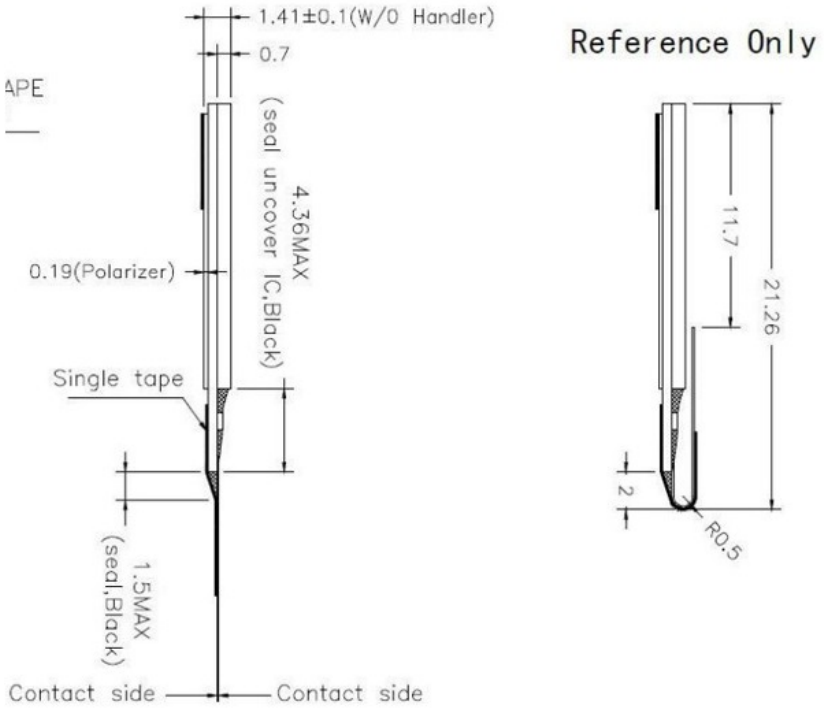
We provide a wide range of standard passive matrix OLED (PMOLED) displays and custom design Character OLED modules, Graphic OLED displays and OLED display panels. Mechanical structure includes Chip on Board (COB), Chip on Glass (COG), and TAB (Tape Automated Bonded) types. Customers can upgrade applications from STN LCD to OLED displays easily.

Key Advantages

- Faster response time: At +25 10 µsec
- Unlimited viewing angle: Up to 175 degrees
- Thin design - No backlight required, self-emitting
- High brightness performance
- High contrast ratio: Up to 10,000:1
- Wide operation temperature: -40 ~ 80
- Lower power consumption

Technical Drawings


26.7±0.2
25.7±0.3(Polarizer)
23.74 (V/A)
21.744 (A/A)
0.5
1.48
(2.478)
PULL TAP
15*5MM
128x64 Dots (0.96")
(1.1)
(2.1)
0.5
14.9±0.2 (cover glass)
14.4±0.3(Polarizer)
12.864 (V/A)
10.864 (A/A)
19.26±0.2
12±0.2
7.35
12±0.3
(6.887)
C0.8±0.1
1
30
4.75±0.2
4±0.2
2.5±0.3
2±0.3
W=0.4±0.05
16±0.1 (Alignment Hole)
3±0.2
P0.7x(30-1)=20.3±0.07
0.85±0.2
22±0.2


1.41±0.1(W/O Handler)
0.7
(seal uncover IC,Black)
4.36MAX
0.19(Polarizer)
Single tape
1.5MAX
(seal,Black)
Contact side
Contact side
Reference Only
11.7
21.26
2
R0.5

PIN NO.	SYMBOL	TYPE	FUNCTION DESCRIPTIONS
1	NC(GND)	P	It should be connected to external ground.
2	C2P	I	C1P/C1N-Pin for charge pump capacitor. C2P/C2N-Pin for charge pump capacitor. Connect to each other with a capacitor. They must be floated when the Charge pump not use.
3	C2N		
4	C1P		
5	C1N		
6	VBAT	P	Power supply for charge pump regulator circuit. It must be connected to external source when charge pump is used. It must be float when charge pump is not used.
7	NC		NC
8	VSS	P	Ground pin. It must be connected to external ground.
9	VDD	P	Power pin for logic circuit. It must be connected to external source.
10	BS0	I	Interface selection pins.
11	BS1		
12	BS2		
13	CS#	I	Chip Select input pin. Active "L"
14	RES#	I	Hardware reset input pin. Active "L".
15	D/C#	I	This is Data/Command control pin. When the pin is pulled HIGH, the data at D[7:0] is data. When the pin is pulled LOW, the data at D[7:0] is command. In I2C mode, this pin acts as SA0 for slave address section. When 3-wire serial interface is selected, this pin must be connected to VSS

	I²C	6800	8080	4SPI
BS0	0	0	0	0
BS1	1	0	1	0
BS2	0	1	1	0

16	R/W#	I	This is read/write control input pin. 8080: data write enable; 6800: read/write select pin. When serial or I2C interface is selected, this pin must be connected to VSS.
17	E#	I	This is read/write control input pin. 8080: data read enable; 6800: read/write enable pin. When serial or I2C interface is selected, this pin must be connected to VSS.
18	D0	I/O	These are 8-bit bi-directional data bus to be connected to microprocessor's Data bus. When serial interface mode is selected, D2 should be kept NC, D1 will be the serial data input: SDIN, D0 will be the serial clock input: SCLK. When I2C mode is selected, D2, D1 should be tied together and serve as SDA and D0 is the serial clock input, SCL.
19	D1		
20	D2		
21	D3		
22	D4		
23	D5		
24	D6		
25	D7		
26	IREF	I	Current reference for brightness adjustment. This is segment output current reference pin. A resistor should be connected between this pin and VSS .Set the current at 12.5 uA maximum.
27	VCOMH	O	COM signal deselected voltage level. A capacitor should be connected between this pin and VSS.
28	VCC	P	Power supply for OLED driving voltage. A capacitor should be connected between this pin and VSS, when charge pump is used. It must be connected to external source when charge pump is not used.
29	VLSS	P	This is an analog ground pin. It should be connected to VSS externally.
30	NC(GND)	P	It should be connected to external ground.

Technical Specifications

Basic Parameters

Dimensions: Diagonal size is 0.96 inches, display area approximately 21.744mm × 11.204mm, module size typically around 26.7mm × 19.26mm, thickness generally 1-2 millimeters.

Resolution: 128 × 64 pixels with high pixel density, capable of clearly displaying text and simple graphics.

Display Colors: Various options including monochrome (white, blue, yellow-green) and dual-color (yellow/sky blue).

Driver Chip: Typically uses SSD1306 chip, some models use SSD1315 or equivalent.

Interface Type: Supports multiple interfaces including I2C, SPI, 6800, 8080 for easy connection with different microcontrollers.

Working Voltage: Generally 3.3V - 5.5V, specific range may vary by brand and model.

Product Features

Self-luminous: No backlight module required, each pixel independently emits light with high contrast. Black pixels can be completely turned off with theoretical infinite contrast.

Fast Response: Response time typically in microsecond range, capable of quickly displaying dynamic images without ghosting.

Wide Viewing Angle: Viewing angle exceeds 170 degrees with consistent image display from different angles.

Low Power Consumption: Pixel-independent control ensures black areas consume no power, making overall consumption lower than

LCD displays - ideal for battery-powered devices.

Product Applications

Embedded Systems: Monitoring devices displaying sensor data (temperature, humidity, air pressure) and smart home control panels showing device status and control instructions.

Wearable Devices: Smart watches, fitness trackers displaying time, steps, heart rate, notifications. Lightweight design integrates easily into compact wearable device spaces.

DIY and Maker Projects: Compatible with Arduino, Raspberry Pi development boards for robot status displays, simple game consoles, information boards - perfect for enthusiast creative needs.

Industrial Equipment: Display screens for small instruments and meters including portable testing tools, handheld oscilloscopes showing measurement data and operation menus.

Consumer Electronics: Desktop weather display units, kitchen weighing devices, air quality detectors providing clear information display and intuitive operation feedback.

Frequently Asked Questions

I want the LCD display 8 digits and the outline size is 65x30x2.8mm?

> No problem. Please send us your specification/drawing paper. If you don't have specifications, you can provide samples; we will recommend suitable standard products or customize based on your requirements.

This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.

> For segment type LCD modules requiring outline size or display content modifications, a new LCD glass module is needed. We will create new tooling for you.

This LCD display is HTN type, but I want STN type, can you make?

> That's all right. We can change the display type as per your request.

I want to customize a new LCD module. Can you do?

> Yes, we can. Please send your drawing paper. If you don't have one, please advise the outline size, display information (glass thickness, polarizer, display type, connector mode, storage temp, operating temp, supply voltage, viewing direction, drive condition) - we can customize for you.

What is the lead time for tooling?

> Generally, it takes 15 to 25 days after drawing paper confirmation and tooling charge payment. We will report exact timing upon drawing paper confirmation.

Can you send us samples for checking?

> Yes, sample orders are available.

What is the Lead Time?

> For standard products in stock, lead time is one day after payment. For mass production of special orders, lead time is approximately 15-30 days. If we can finish earlier, we will report the information in advance.

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