



## 1.5 Inch Monochrome White/Blue OLED Display with 128x128 Resolution and COG+FPC Connectivity

Our Product Introduction

### Basic Information



### Product Specification

- Connectivity: COG+FPC
- Touchscreen: No
- Light Source: White LED
- Outline Dimension: 33.8(W) X 43.7(H) X 1.41(T) Mm
- Viewing Angle: All Viewing Angles 80/80/80/80
- Interface: I2C, SPI, 6800, 8080 Optional
- Lcd Type: OLED
- Operating Voltage: 3.3V
- Highlight: 1.5 inch monochrome OLED display, 128x128 resolution OLED screen, COG FPC connectivity OLED module



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## Product Description

### 1.5 Inch Graphic Monochrome White Blue Color 128x128 OLED Display

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#### Product Specifications

<b>Product</b>	OLED Display 1.5 Inch
<b>Resolution</b>	128 X 128
<b>Glass Type</b>	OLED (Organic Light Emitting Diode)
<b>Optics</b>	All Viewing Angles 80/80/80/80
<b>Interface</b>	I2C, SPI, 6800, 8080 Optional
<b>Outline Dimensions</b>	33.8(W) X 43.7(H) X 1.41(T) mm
<b>Active Area</b>	26.86 (W) X 26.86 (H) mm
<b>Operating Temperature</b>	-40°C To +70°C
<b>Pin Number</b>	25 Pins
<b>Controller</b>	SSD1327 Or Equivalent
<b>Drive Mode</b>	1/128 Duty Cycle
<b>Connector</b>	COG+FPC

#### Product Introduction

This is a 1.5-inch square single-color OLED display with a resolution of 128×128. It offers the option of white or blue light, is self-luminous, has high contrast, is ultra-thin, and focuses on low power consumption and industrial-grade stability. It is an ideal display solution for miniaturized embedded devices.

#### Core Features

**Display Specifications:** 1.5 inches (square), 128×128 dot matrix, dot pitch 0.21mm, effective display area approximately 26.86×26.86mm

**Color Options:** Single-color white / blue option, black background with light emission, extremely high contrast (∞:1)

**Brightness:** Approximately 100cd/m<sup>2</sup>, no backlight required, strong self-illuminating visibility

**Viewing Angle:** Close to 180° full viewing angle, no color bias

**Driver and Interface:** Common SH1107, SSD1327; SPI/I2C (some parallel ports), 3.3V level, compatible with STM32, Arduino, etc.

**Power Consumption:** Working approximately 10-20mA, sleep < 5μA, ultra-low power consumption

**Structure:** COG (Chip-on-Glass), thickness approximately 2.6-3mm, lightweight

**Operating Temperature:** -40 to +70 , industrial-grade temperature resistance

**Power Supply:** Logic 3.3V, OLED high voltage 7-16.5V (module built-in boost)

#### Main Applications

Instrumentation: Industrial dials, temperature controllers, power monitoring instruments, display data / curves / status

Smart home: Smart switches, air conditioners / remote controllers, video doorbells, small interface clear

Wearable devices: Fitness bands, health monitors, smart headphones, low power consumption + small size suitable for adaptation

Medical equipment: Portable blood oxygen meters, blood glucose meters, electrocardiogram monitors, low temperature stability, high contrast easy to read

Internet of Things terminals: Sensor nodes, LoRa/Wi-Fi controllers, environmental monitoring equipment

Embedded development: STM32/Arduino prototypes, DIY projects, educational experiments, simple interface easy to drive

Automotive and security: Reverse radar, access card reader, camera status screen, wide viewing angle, temperature resistance

#### Technical Drawings





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## Frequently Asked Questions

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

No problem. Firstly, please kindly send us your specification/drawing paper. If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

### 2. 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 the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.

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

That's all right. We can change for you as per you request.

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

Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.

### 5. What is leading time for tooling?

General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.

### 6. Can you send us samples for checking?

Yes. Samples order is available.

### 7. What is the Leading Time?

If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. Suppose we can finish earlier, we will report the information in advanced.

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## Our Service

Free repair within one year after the shipment of products from us.

Replacement within 30 days after the shipment of products from us due to products' problems.

We can print your logo and stick your model No. on the cameras.

We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts.

Professional technician supports. We have a good after-sales service team. They can solve your problems in time.

All goods will be inspected and tested by our engineers and QC/QA before packing and shipment.

Customers satisfactory is most important to us. If you have any problem or questions regarding our transaction. Please contact us by Email or online. It will be responded within 24 hours.

Products pictures only for your reference. Please kindly refer to the specification. We can provide the products basic on the specification. Or you can offer your own specification or drawing, we can customize all kinds of LCD displays for you. Thanks for your kind support always.



**Dongguan Bibuke Electronic Technology Co., Ltd.**



+8613711912723



Jack@smartwinlcd.cn



lcdtftscreen.com

Shangyu Commercial Centre Chang'an, Dongguan, Guangdong, China 523881