

1.5 Inch I2C Interface 128x128 Pixels OLED Display Module with All Viewing Angles

Our Product Introduction

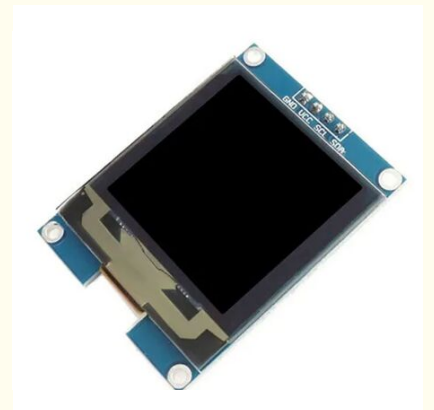
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Basic Information



Product Specification

- Overall Dimensions: 34.3 × 45.5 × 3.8 Mm
- Panel Type: LCD
- Interface Types: I2C
- Operating Temperature: -40 To +85
- Luminance: 60 Cd/m2
- Viewing Direction: All Viewing Angles
- Fpc Connect: 4 Pins (7 Pins Optional)
- Screen Type: TFT LCD
- Highlight: **1.5 Inch OLED Display, 128x128 Pixels OLED Module, I2C Interface OLED Screen**



Product Description

1.5 Inch I2C Interface 128x128 Pixels 4 Pins OLED Display

This high-resolution 1.5-inch OLED display module features a compact square design with 128×128 pixel resolution, delivering crisp black-and-white imagery with 16 levels of grayscale display.

Key Features & Specifications

Product:	1.5 Inch OLED 4 Pins I2C	Resolution:	128x128 Pixels
Structure:	COG + PCB	Interface:	I2C interface
Touch Screen:	Customizable	Viewing Direction:	All Viewing Angles
Outline Dimensions:	34.3 × 45.5 × 3.8 mm	Connection:	Header Pins
Pin Number:	4 Pins (7 Pins Optional)	Operating Temperature:	-40°C to +85°C
Lifetime:	50,000 Hours @ 60cd/m ²	Compliance:	REACH & RoHS Compliant

This OLED display module utilizes mainstream driver chips such as SSD1327 or SH1107, supporting 16 levels of grayscale for fine gradation transitions in black-and-white images. The 4-pin I2C serial communication interface features simple pin definitions: VCC (power supply), GND (ground), SDA (data line), and SCL (clock line), significantly reducing hardware integration complexity.

As a self-luminous display device, this module requires no backlight, offering ultra-high contrast, wide viewing angles exceeding 160°, and microsecond-level response speed. It maintains clarity in strong light conditions and eliminates light leakage in low light. The integrated COG+PCB structure provides compact dimensions, with some models including mounting holes for easy device fixation.

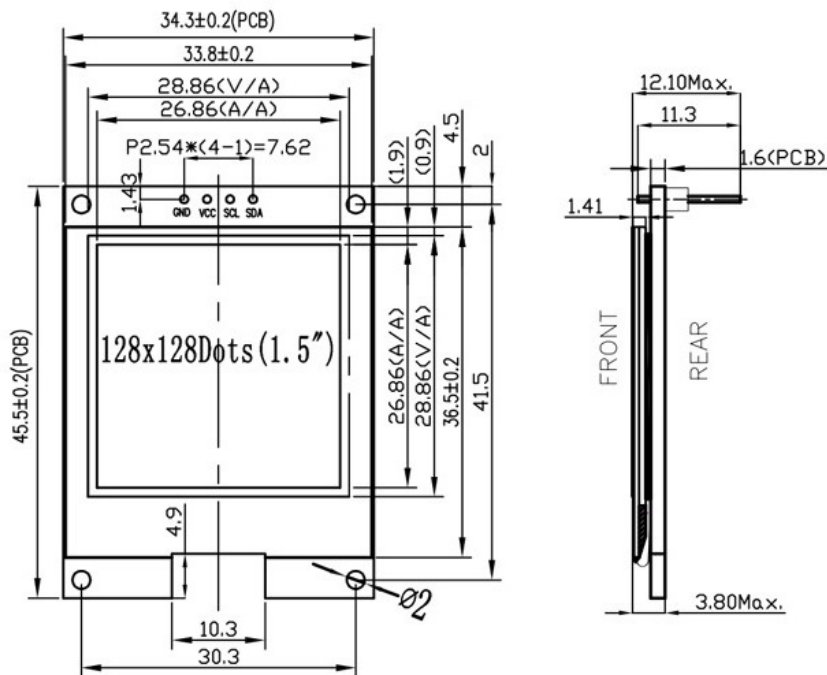
Operating within a temperature range of -40°C to 85°C, this module features low power consumption (approximately 0.05W during normal operation) and industrial-grade stability. Complete driver routines for Arduino, STM32, ESP32, and other platforms enable rapid development out of the box.

Primary Applications

This compact, high-resolution display module with simple interface is widely used in embedded and portable devices across multiple industries:

- **Maker development and intelligent hardware:** Ideal for DIY handheld terminals and open-source hardware expansion screens, displaying sensor data, menu interfaces, and operating status
- **Industrial and medical equipment:** Suitable for handheld detection instruments, temperature and humidity controllers, and small flow meters for parameter display
- **Consumer electronics:** Used as main screens for smart watches, portable audio players, fitness trackers, smart home control panels, and Bluetooth speaker status indicators
- **Additional applications:** Auxiliary display units for instruments and meters, real-time data feedback screens for drones and robots, small appliances, and vehicle auxiliary displays





Frequently Asked Questions

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

Yes, we can accommodate your requirements. Please send us your specifications or drawing. If you don't have specifications, you can provide samples, and we'll recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but it's too large. Do you have smaller sizes? We also need minor display content modifications.

For segment type LCD modules requiring outline size modifications or display content changes, we need to create a new LCD glass module, which involves opening new tooling.

This LCD display is HTN type, but I want STN type. Can you make this change?

Yes, we can modify the display type according to your request.

Can you customize a new LCD module for us?

Yes, we offer complete customization services. Please provide your drawing or specify requirements including outline size, display information (glass thickness, polarizer, display type, connector mode, storage temperature, operating temperature, supply voltage, viewing direction, drive conditions).

What is the lead time for tooling?

Typically, tooling requires 15 to 25 days after drawing confirmation and tooling charge payment. We'll provide exact timelines upon drawing confirmation.

Can you send samples for evaluation?

Yes, sample orders are available for quality checking and testing.

What is your standard 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. We'll notify you if we can complete orders earlier than scheduled.

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