1.5 Inch 128x128 Pixels I2C Interface OLED Display Module with All Viewing Angles and Low Power Consumption

Our Product Introduction

Basic Information

Product Specification

- Backlight Technology: LED
- Pin Number: 4 Pins (7 Pins Optional)
- Light Source: White LED*6
- Connect: Header Pins
- Storagetemperature: -30°C To 80°C
- Size: 1.5inch
- Viewing Angle: All Viewing Angles
- Interface: I2C Interface
- Highlight: **1.5 inch OLED display module**, **128x128 pixel I2C OLED**, **low power consumption OLED screen**

Our Product Introduction

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Product Description

1.5 Inch 128x128 Pixels 4 Pins I2C Interface OLED Display Panel Module

This is an OLED display module with a size of 1.5 inches, a resolution of 128×128 pixels, and a 4-pin I2C interface. It is a self-luminous display, requiring no backlight. With the core advantages of ultra-lightweight, low power consumption, and high contrast, it is particularly suitable for embedded scenarios with limited space and battery-powered power supply.

Product Features

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 Dim.:	34.3 × 45.5 × 3.8 Mm
Connection:	Header Pins
Pin Number:	4 Pins (7 Pins Optional)
Operating Temp.:	-40 To +85
Lifetime:	50,000 Hours @ 60cd/m2
Compliance:	REACH & RoHS Compliant

Display Core (OLED)

Size: 1.5 inches, square

Resolution: 128×128, 1:1 square

Display Color: Monochrome (commonly white/blue), 16 levels of gray

Luminous Characteristics: Self-luminous, no backlight required, black is purer

Viewing Angle: 160° + full viewing angle, clear viewing in all directions

Brightness / **Contrast:** High contrast, sharp text edges

Driver IC: Common SH1107, SSD1327

Interface (4-pin I2C)

Pin Definition: VCC, GND, SCL, SDA, only 4 pins

Communication: I2C, 2-wire serial, occupies very few MCU pins

Voltage: Compatible with 3.3V/5V, suitable for various development boards

Wiring: Minimalist, suitable for compact PCB design

Structure and Power Consumption

Thickness: Ultra-thin (about 2-3mm), lightweight

Power Consumption: Microampere level, much lower than LCD, friendly for battery devices

Operating Temperature: -40°C to +70°C, industrial-grade stability

Panel: COG (Chip-on-Glass) process, narrow bezel

Main Applications

Embedded development: Prototype development using Arduino, STM32, ESP32, Raspberry Pi, etc.

IoT devices: Smart sensor nodes, environmental monitors, WiFi/Bluetooth terminals

Wearable devices: Smart wristbands, health monitors, small wristwatches

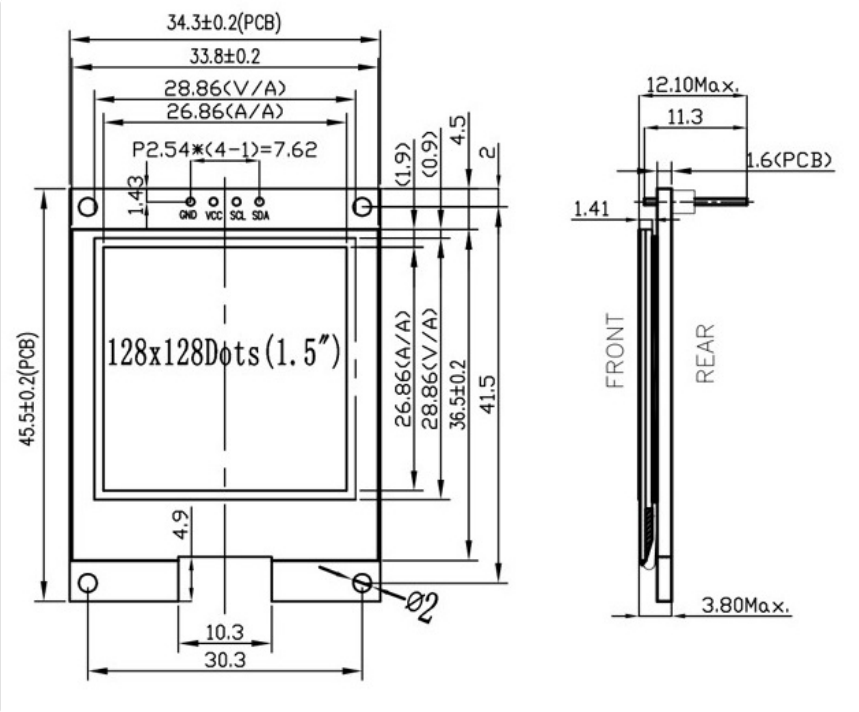
Industrial control and instruments: Small control panels, data displayers, meters

Smart home: Smart switch panels, door lock status screens, mini thermostats

Medical equipment: Portable testing devices, blood oxygen meters, small monitors

Consumer electronics: Mini game consoles, audio players, Bluetooth speaker status displays

Product Drawings



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 number on the displays
- Professional shipping discounts through established partnerships
- Professional technician support with responsive after-sales service team
- All goods inspected and tested by engineers and QC/QA before shipment
- 24-hour response time for customer inquiries and support
- Customization available based on your specifications or drawings

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, if you need to modify the outline size or display content, 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 provide the outline size, display information (glass thickness, polarizer, display type, connector mode, storage/operating temperature, supply voltage, viewing direction, drive condition).

What is the lead time for tooling?

Generally, it takes 15 to 25 days after drawing paper confirmation and tooling charge payment. We will provide exact timing upon drawing 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 about 15-30 days. We will inform you in advance if we can finish earlier.

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