

0.5 Inch OLED Display Module 88x48 Pixels Passive Matrix With I2C Interface

Basic Information



Product Specification

- Light Source: White LED
- Resolution: 48x88
- Colors: Monochrome (white)
- Viewing Angle: All Viewing Angles
- Interface: I2C
- Drive Duty: 1/48 Duty
- Pixel Pitch: 0.128 X 0.128 (mm)
- Technology: LCD
- Highlight: **0.5 Inch OLED Display Module, 88x48 Pixels PMOLED Display, I2C Interface OLED Screen**



Product Description

0.5 Inch OLED Display Module 88x48 Pixels Passive Matrix With I2C Interface

Product Overview

Ultra-small monochrome self-luminous OLED display module featuring passive matrix driving and COG packaging technology with CH1115 driver IC and I2C interface.

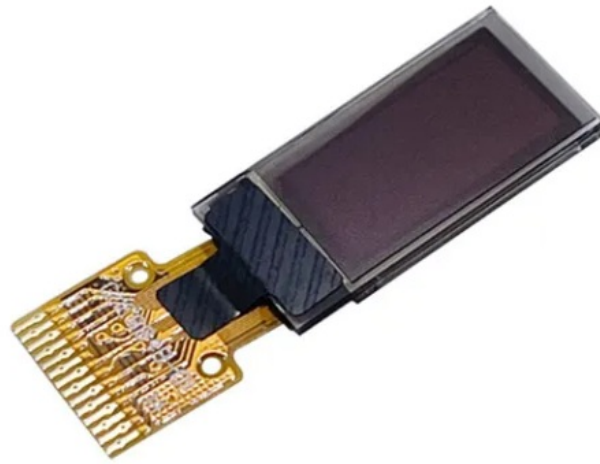
Product	0.5 Inch OLED Display Module
Number Of Pixels	48x88 Pixels
Driver IC	CH1115 Or Equivalent
Display Mode	Passive Matrix
Display Color	Monochrome (white)
Drive Duty	1/48 Duty
Panel Size	8.928 X 17.1 X 1.227 (mm)
Active Area	6.124 X 11.244 (mm)
Pixel Pitch	0.128 X 0.128 (mm)
Pixel Size	0.108 X 0.108 (mm)
Viewing Direction	All Viewing Angles
Interface	I2C
Connection	Soldering/Hotbar (customizable)
Pin Number	14 Pins (Can Be Customized)
Life Time	50,000 Hours @60cd/m2

Technical Features

- OLED self-luminous technology requires no backlight
- High contrast ratio up to 10000:1 with full-view clarity
- Extremely low power consumption ideal for battery-powered devices
- Ultra-thin and lightweight structure for embedding in narrow spaces
- Wide operating temperature range (-40°C to +70°C) for harsh environments
- Simple I2C two-wire interface for easy connection and programming

Core Applications

- Wearable & Portable Electronics:** Bluetooth earphones, smart wristbands, health monitors, MP3 players, voice recorders, electronic cigarettes, miniature remote controls
- Medical Health Devices:** Blood glucose testers, oximeters, portable blood pressure monitors, small diagnostic equipment
- Industrial Control & IoT:** Sensor nodes, smart home controllers, security detectors, instrument parameter displays
- Automotive & Travel:** Tire pressure monitors, vehicle status indicators, bicycle odometers



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 outline size or display content, a new LCD glass module is required. 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 temp, operating temp, supply voltage, viewing direction, drive condition), and we can customize for you.

What is leading time for tooling?

Generally, it takes 15 to 25 days after drawing paper confirmation and tooling charge payment. We will report the exact time when you confirm the drawing paper.

Can you send us samples for checking?

Yes. Sample orders are available.

What is the Leading Time?

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



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