FPC Interface 128x64 COG LCD Module with 5V Operating Voltage and Compact COG Packaging

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

- Lcd Type: TN, Positive
- Storage Temperature Range: -30 To +80
- Screen Size: 58(H)*41.56(W)*4.5(T)mm Or Customized Size
- Display Mode: Positive , Transflective
- Number Of Dots: 128X64 Dots
- Driver Mode: 1/65 Duty, 1/9 Bias
- Operating Voltage: 5V
- Number Of Pins: 14 PIN
- Highlight: **5V COG LCD Module**, **FPC Interface LCD Display**, **COG Packaging 128x64 Dot Matrix LCD**

Product Description

FPC Interface 128x64 COG LCD Module 12864 Dot Matrix LED

Item	Contents	Description
1	Product Name	COG Lcd Module
2	Module Size	58(W)*41.5(H)*4.5(T)mm2
3	V/A Size	54(W)*35(H) mm
4	Driver Mode	1/65 Duty, 1/9 Bias
5	Viewing Direction	12 o'clock
6	Operating Voltage	3.0~5.0V
7	Operating Temp	-20~70
8	Storage Temp	-30~80
9	Number of Dots	128X64 Dots

I. Product Core Parameters and Technical Characteristics

1. Basic Specifications

Display Parameters: 128 columns × 64 rows dot matrix structure, typical pixel pitch 0.45mm × 0.45mm, display area approximately 57.6mm × 28.8mm

Driver Scheme: Uses COG (Chip On Glass) packaging technology, bonding the driver IC directly onto the glass substrate

Interface Type: FPC (Flexible Printed Circuit) interface, common pin count is 8-16 pins, supports SPI/I2C communication protocols

Backlight Configuration: Built-in LED backlight (side-emitting type), typical operating current 20-50mA, brightness ≥ 100cd/m²

Operating Environment: Working temperature -20 ~70 , storage temperature -30 ~80 , working voltage 3.3V/5V dual voltage compatibility

2. Core Technical Advantages

COG Packaging Advantage: Volume reduced by 30% or more, weight reduced by 40% compared to traditional COB packaging

FPC Interface Characteristics: Flexible cables can be bent and folded, suitable for irregular installation spaces

Low Power Consumption Design: Static display mode power consumption is only 1/3 of dynamic display

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II. Typical Application Scenarios

1. Industrial Control Equipment

PLC controllers, frequency converters, sensor instrument panels, industrial remote controllers, etc. Wide temperature operating range suitable for harsh industrial environments.

2. Consumer Electronic Devices

Electronic dictionaries, calculators, smart wristbands/watches, Bluetooth speakers, small household appliance control panels, etc. Compact size and lightweight design suitable for portable devices.

3. Medical and Health Equipment

Blood glucose meters, blood pressure monitors, blood oxygen meters, portable electrocardiogram machines, etc. High stability and low power consumption meeting precise display requirements.

4. Automotive Electronics and IoT Devices

Vehicle tire pressure monitors, driving recorders, IoT gateways, smart home control panels, etc. Anti-vibration and anti-electromagnetic interference capabilities.

5. Instruments, Meters, and Security Equipment

Multimeters, oscilloscopes, infrared thermometers, access control controllers, alarm hosts, etc. High contrast display ensuring clear data readability.

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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