

3.5 Inch TFT LCD Screen with 320x480 HVGA Resolution and RGB/MCU Interface

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



Product Specification

- Backlight Type: LED
- Active Area: 48.96×73.44mm
- Interface: RGB/MCU Optional
- Luminance: 300 Cd/m2
- Lcd Type: TFT
- Viewing Angle: 12 O'CLOCK
- Operating Temperature: -20 To +70
- Touch Screen: Customized
- Highlight: **3.5 Inch LCD Module, 320x480 Resolution TFT LCD Screen, RGB/MCU Interface HVGA Display**



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Product Description

3.5" Inch LCD Module 320x480 HVGA with ILI9488 IC and RGB/MCU Interface

This 3.5-inch HVGA (320×480 pixel) TFT liquid module is driven by the ILI9488 IC and supports both RGB and MCU interfaces. It is an embedded display solution that balances display quality, adaptability and cost, and is widely used in handheld, industrial, smart home and other scenarios.

Product:	3.5" Inch LCD Module	Touch Screen:	Resistive Touch Panel
Resolution:	320x480 Pixels	Cover Glass Dimension:	Customizable/optional
Viewing Direction:	12 O'CLOCK	Interface:	RGB/MCU Optional
Pin Number:	45 PINS	Connection:	FPC Plugging Type
Surface Luminance:	300cd/m2 (nits)	LED Lifetime:	40,000 Hours

Product Core Features

This module employs TFT liquid crystal technology with an effective display area of approximately 48.96×73.44mm. The common brightness is 300-400 cd/m², and the color range is up to 16.7M colors.

Viewing angle options: full-angle (IPS) or 12 o'clock direction (TN)

Operating temperature: -20 to 70

Storage temperature: -30 to 80

Suitable for most embedded environments

ILI9488 driver integrates display cache and control logic

Supports 8/16-bit MCU parallel and RGB parallel interfaces

MCU interface suitable for resource-limited microcontrollers (STM32, Arduino)

RGB interface for higher frame rate videos or dynamic pictures

Optional SPI interface compatibility

Touch options: resistive or capacitive with 1-5 point touch support

Main Applications

Embedded Development and Maker Projects

Compatible with mainstream development boards such as Arduino, Raspberry Pi, and STM32. Used for creating portable meters, small game consoles, temperature and humidity monitoring terminals. The SPI/MCU interface saves IO resources and reduces development difficulty.

Handheld and Consumer Electronics

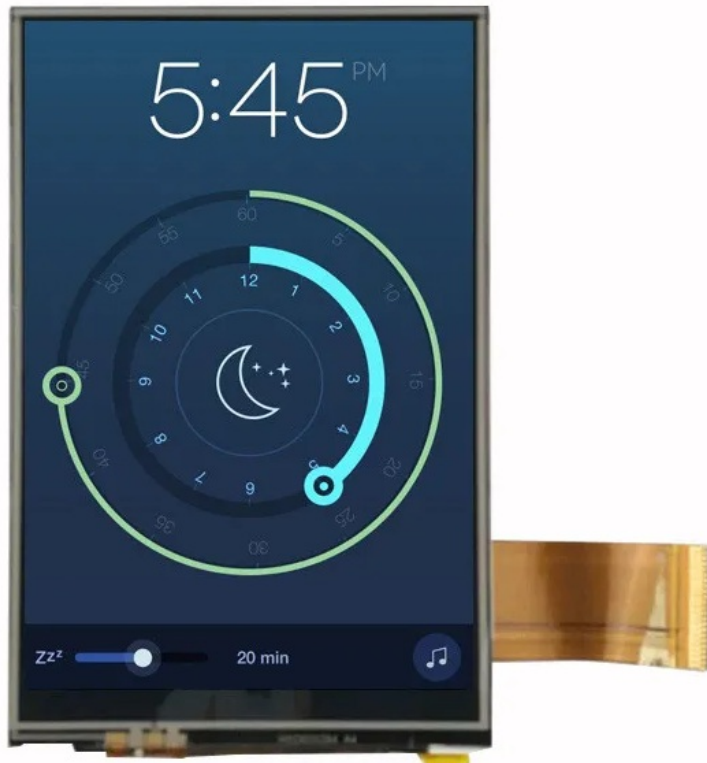
Often used in POS machines, handheld barcode scanners, smart home control panels (air conditioners, vacuum cleaners), electric bicycle meters. The 3.5-inch size is portable, and the 320×480 resolution clearly displays text, icons, and simple graphics.

Industrial and Medical Equipment

In industrial HMI, small PLC human-machine interfaces, portable diagnostic instruments, blood oxygen meters. Wide temperature characteristics and stable display capabilities adapt to complex working conditions. Anti-interference design ensures real-time and accurate data display.

Automotive and IoT Terminals

Suitable for vehicle tire pressure monitoring, secondary screens of driving recorders, local display panels of IoT gateways. Thin and low-power characteristics meet automotive and portable device design requirements.



Frequently Asked Questions

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.

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.

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.

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.

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.

Can you send us samples for checking?

Yes. Samples order is available.

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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