



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

Basic Information



Product Specification



Our Product Introduction

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Product Description

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

Product Specifications

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 Overview

This is a 3.5-inch TFT liquid crystal module integrated with the ILI9488 driver chip, with a resolution of 320×480 (HVGA). It supports both RGB and MCU (8080 parallel) interfaces, making it a commonly used color display solution in embedded and industrial scenarios.

Core Parameters and Features

Screen and resolution: 3.5 inches, HVGA (320×480), vertical display, aspect ratio 4:3

Driver chip: ILI9488 (integrated controller/driver, built-in GRAM, reduces the burden on the main controller)

Display performance: Supports 18-bit color (262K colors), can simulate 16.7M colors; brightness approximately 300-450 cd/m², contrast 500:1; mostly IPS full viewing angle

Dual interface design: MCU interface (8/16-bit parallel 8080 bus) and RGB interface (16/18/24 bits)

Electrical and environmental: Typical 3.3V power supply; operating temperature -20°C to +70°C, industrial-grade stability

Mechanical specifications: Shape approximately 57×96×6mm, FPC wiring connection

Main Applications

Industrial control: HMI human-machine interface, PLC terminals, instruments, equipment control panels

Consumer electronics: Smart home central control, portable game consoles, digital photo frames, small household appliances

Medical equipment: Blood glucose meters, oxygen sensors, electronic blood pressure monitors, portable electrocardiogram devices

Automotive and security: GPS navigation terminals, rearview camera auxiliary screens, access control indoor units, monitoring displays

Internet of Things and handheld devices: Data collectors, barcode scanners, intelligent sensor terminals, environmental monitors

Summary of Advantages

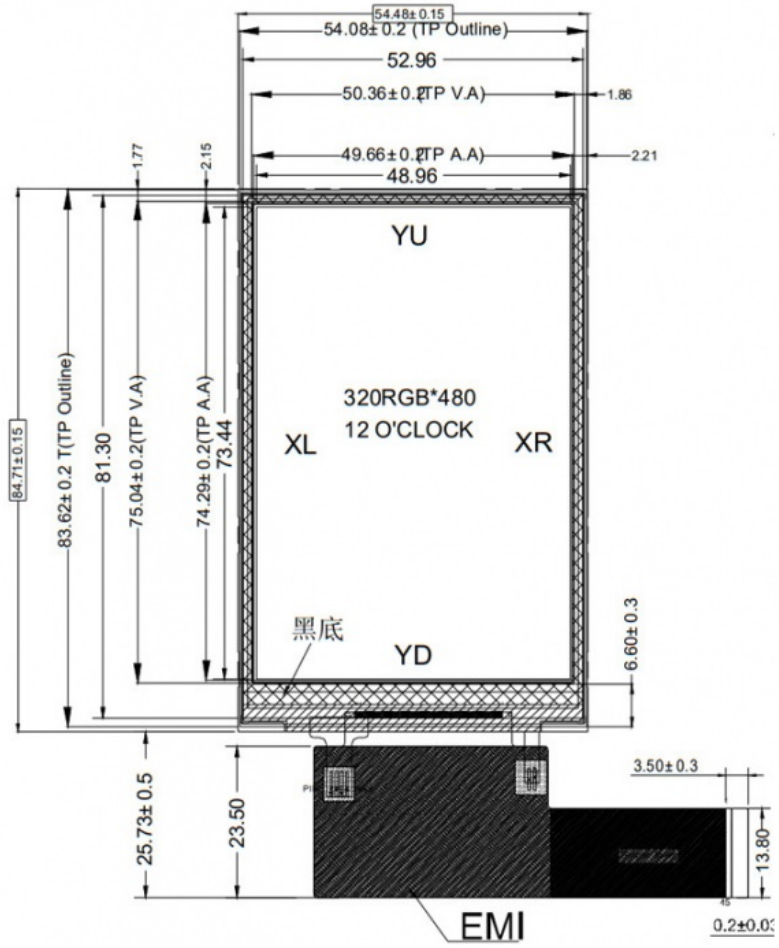
Dual interfaces are flexible and compatible with both single-chip microcontrollers and high-end processors development

ILI9488 has high integration, simplifies hardware design, and reduces the burden on the main controller

Small size and high resolution, suitable for scenarios with limited space but requiring clear color display

Industrial-grade temperature and stability, suitable for long-term operation in harsh environments

Product Images





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.

Our Services

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 No. on the cameras

We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts

Professional technician supports. We have a good after-sales service team. They can solve your problems in time

All goods will be inspected and tested by our engineers and QC/QA before packing and shipment

Customers satisfactory is most important to us. If you have any problem or questions regarding our transaction. Please contact us by Email or online. It will be responded within 24 hours

Products pictures only for your reference. Please kindly refer to the specification. We can provide the products based on the specification, or you can offer your own specification or drawing. We can customize all kinds of LCD displays for you



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