

## 3.5-inch TFT LCD with Resistive Touch Panel | 320x480 16-bit Parallel Interface

Our Product Introduction

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### Basic Information



### Product Specification

- Luminance: 300 Cd/m2
- Resolution: 320\*480 Pixels
- Interface Types: 16-bit Parallel (DBI Type B)
- Touch Screen: With Resistive Touch Panel
- Color Depth: 16.7 Million Colors
- Viewing Direction: 12 O'clock
- Outline Size: 54.48\*84.71\*3. 25 Mm
- Technology: LCD



### More Images



### Product Description

#### 3.5-inch TFT LCD with Resistive Touch Panel | 320x480 16-bit Parallel Interface

##### Description

Product:	3.5 Inch TFT LCD	Resolution:	320 x 480 Pixels (RGB)
Interface:	16-bit Parallel (DBI Type B)	Outline Dim.:	54.48*84.71*3. 25 Mm
Viewing Direction:	12 O'clock	Touch Screen:	With Resistive Touch Panel
Driver IC:	ILI9488	Contrast Ratio:	250:1
Touch Durability:	1,000,000+ Input Cycles	Surface Luminance:	300 Cd/m <sup>2</sup> (typical)
Operating Temp.:	-20 To +70	Compliance:	REACH & RoHS Compliant

Here we provide a detailed introduction to this 3.5-inch TFT LCD resistive touch screen (with a resolution of 320x480 and a 16-bit parallel interface). We also include the usage and real photos.

##### Product Core Introduction

This is a mature and versatile color display touch module, combining thin-film transistor (TFT) liquid crystal technology with 4-line resistive touch solution. It adopts a 16-bit parallel (8080 MCU) interface. It is a commonly used human-computer interaction component in embedded development and industrial/consumer devices.

Basic Specifications: 3.5-inch diagonal, effective display area approximately 48.96x73.44 mm; resolution 320 (horizontal) x 480 (vertical) pixels; 16-bit RGB capable of presenting 65K true colors; resistive touch is single-point precise touch, can be

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operated with fingers, gloves, or touch pens, unaffected by humid / oily environments; the driving IC is commonly ILI9488, ST7796, ILI9486, etc., paired with XPT2046 touch control chip; the working voltage is mostly 3.3V (some compatible with 5V level conversion), the working temperature often reaches -20 to +70 , suitable for most indoor and outdoor scenarios. Advantages of 16-bit Parallel Interface: Compared with SPI serial interface, the parallel bus has faster data throughput, enabling rapid screen refresh and dynamic video display, suitable for interactive interfaces requiring immediate response; the interface pins include data D0-D15, chip select, read/write, reset, etc., which can directly match mainstream MCU development boards such as STM32, Arduino Mega. Structural Features: The module integrates LCD panel, backlight unit, resistive touch layer and driving PCB, with a relatively thin overall thickness (about 3mm), easy to install; some models come with FPC flexible ribbon cable or straight pin insertion, supporting vertical / horizontal software display direction switching.

### Core application scenarios

Embedded development and maker projects: As an external screen for Arduino Mega and STM32 development boards, it is used for the control panel of 3D printers, the debugging interface of robots, the prototype of home automation central control, and quickly realizes visual interaction and parameter adjustment. Industrial control equipment: Suitable for the human-machine interface of small PLCs, the on-site display terminal of frequency converters/sensors, the screen of scanning guns for warehouse logistics, and stable display of data in dusty and temperature-differential industrial environments and supporting touch operations. Medical portable devices: Applied to the display screens of blood glucose meters, electrocardiogram monitors, portable ultrasound equipment, clearly presenting detection data and operation menus. Resistance touch supports operation with medical gloves, meeting the needs of medical scenarios. Vehicle-mounted and security terminals: Used for small-screen navigation in vehicles, tire pressure monitoring displays, vehicle audio and video control panels, as well as access control systems and small monitoring hosts' local operation interfaces. Consumer electronics and instruments: Applicable to handheld POS machines, portable multimeters, electronic dictionaries, early education devices, etc., balancing color display and low-cost, high-reliability touch experience.



### FAQ:

1. I want the LCD display 8 digits and the outline size is 65x30x2.8mm.....?

Answer: 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.

Answer: 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?

Answer: That's all right . we can change for you as per you request.

4. I want customize a new LCD module. Can you do?

Answer: 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?

Answer: 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?**

Answer: Yes., Samples order is available.

**7. What is the Leading Time?**

Answer: 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:**

1. Free repair within one year after the shipment of products from us.
2. Replacement within 30 days after the shipment of products from us due to products' problems.
3. We can print your logo and stick your model No.on the cameras.
4. We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts.
5. Professional technician supports. We have a good after-sales service team. They can solve your problems in time.
6. All goods will be inspected and tested by our engineers and QC/QA before packing and shipment.
7. 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.
8. Products pictures only for your reference, please kindly refer to the specification. we can provide the products basic on the specification. or you can offer your own specification or drawing, we can customize all kinds of LCD displays for you. thanks for your kind support always.



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