

2-Inch 240x320 Resolution High Brightness IPS TFT-LCD Display Module with SPI Interface

Basic Information



Product Specification



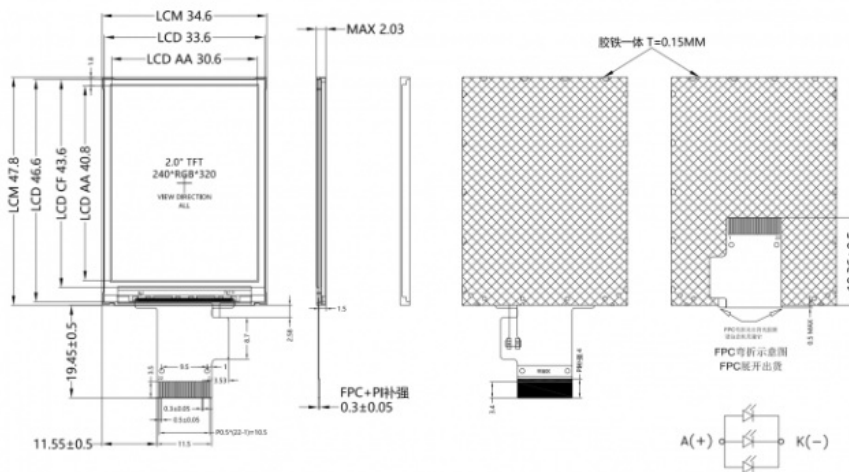
Product Description

2-Inch 240x320 Res High Brightness IPS TFT-LCD Display Module

Technical Specifications

Item	Specification
Display Mode	Normally Black, Transmissive
Viewing Direction	ALL
Colors	262K
Drive IC	ST7789P3
Interface Type	4Wire SPI
Dimensional Outline	34.60(W) x 47.80(H) x 2.03(T)
LCD Active Area	30.60(W) x 40.80(H)
Resolution	240 RGB(H) x 320(V)
Pixel Pitch	0.1275(W) x 0.1275(H)
Surface Brightness	400 nits

Mechanical Dimensions



Product Introduction

This 2-inch 240×320 resolution high-brightness IPS TFT-LCD display module is a high-integration and stable small-sized color display. Its core advantages lie in the IPS full-view angle, high brightness, small size and low power consumption.

Core Parameters

Size: 2 inches (diagonal)

Resolution: 240×320 pixels, with fine display

Panel: IPS technology, full viewing angle (up, down, left, right ≥ 80°), no color bias

Brightness: Typical value 380-600 cd/m², readable in sunlight

Color: 262K colors, vivid colors

Driver IC: Commonly ST7789V/ST7789VW

Interface: Mainstream SPI (3-wire / 4-wire), some support RGB/MCU

Size: Approximately 34.7×48×2.2 mm, thickness only 2.2-2.4 mm

Operating temperature: -20°C to +70°C, suitable for industrial-grade environments

Main Features

High brightness + IPS: Clearly visible in outdoor / strong light conditions, with full viewing angle and no blind spots

Low power consumption: Extremely low standby power consumption, suitable for battery-powered devices

Easy integration: Simple SPI interface, compatible with STM32, Arduino, Raspberry Pi, etc.

Optional touch: Can be paired with resistive / capacitive touch screens (CTP/RTP)

Main Applications

Industrial control: Embedded systems, PLC control panels, sensor terminals, data collectors

Smart hardware: Wearable devices (wristbands, smart watches), IoT modules, smart home controllers

Consumer electronics: Mini household appliances (rice cookers, induction cookers, air conditioners), handheld devices (detectors, range finders), game consoles

Medical equipment: Electronic blood pressure monitors, blood glucose meters, massage devices, portable diagnostic equipment

Automotive electronics: Vehicle meters, tire pressure monitoring systems, dashcam, rearview image assistance screens

Development learning: Display screens for STM32/Arduino/Raspberry Pi development boards, used for project prototype development





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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