



2.8 Inch 240x320 Resolution All Viewing Angle IPS TFT LCD Display with MCU/SPI/RGB Interface

Basic Information



Product Specification



Our Product Introduction

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2.8" Inch All Viewing Angle 240x320 IPS Type TFT LCD With MCU/SPI/RGB Interface

Product Specifications

Product:	2.8 Inch TFT Display
Touch Screen:	Without Touch Screen
Resolution:	240*320
Cover Glass Dimension:	Customizable
Viewing Direction:	All
Interface:	MCU/SPI/RGB
Pin Number:	40 Pins
Connection:	FPC ZIP Connector
Surface Luminance:	250 Cd/m ²
LED Lifetime:	40,000 Hours

Product Introduction

This is a 2.8-inch IPS-type TFT LCD color display with a resolution of 240×320 (QVGA). It adopts the IPS (In-Plane Switching) full-view technology, enabling an 80°/80°/80°/80° wide viewing angle from all directions. Viewing it from any angle will maintain the consistency of color and brightness.

The effective display area of the screen is approximately 43.2×57.6mm, and the overall size of the module is about 50.0×69.2mm, with a thickness of only 3.95~4.99mm. The structure is compact, suitable for miniaturized equipment design. The typical brightness is 280-350cd/m², supporting 65K/262K color display, with accurate color reproduction and clear display quality.

The core driving IC is usually ILI9341 or ST7789, integrating MCU (8/16-bit parallel), SPI (3/4-line serial), and RGB three mainstream interfaces. It is compatible with various main control chips such as STM32, Arduino, and FPGA, meeting the connection requirements of different development scenarios. The working voltage is 3.3V, with an industrial temperature range of -20 to +70 . It has low power consumption, strong anti-static and anti-interference capabilities, and is suitable for long-term stable operation.

Main Applications

Industrial control equipment: As a human-machine interface (HMI), used in industrial instruments, automation control panels, handheld scanning guns, data terminals, etc., to display the operating status, parameter settings, and real-time data.

Medical detection instruments: Compatible with portable blood glucose meters, oximeters, blood pressure monitors, temperature detectors, etc., providing clear reading display, status indication, and operation interface.

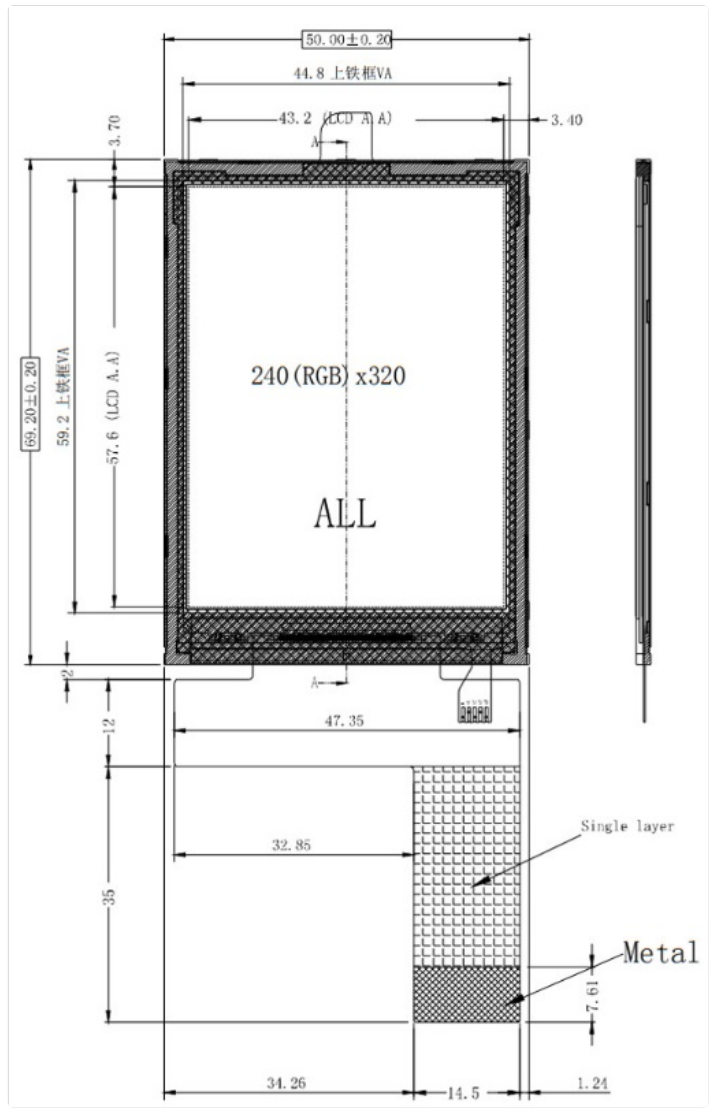
Smart home terminals: Applied in smart locks, thermostats, air purifiers, smart switches, etc., to achieve menu operation, status feedback, and interactive control.

Consumer electronics and DIY projects: Widely used in Arduino, STM32 development boards, smart cars, electronic toys, early education machines, etc., being a commonly used display module for embedded developers.

Vehicle-mounted and outdoor equipment: Used in tire pressure monitors, vehicle navigation auxiliary screens, handheld GPS, cycling odometers, etc., adapting to strong outdoor light and wide temperature environments.

Financial and commercial equipment: Compatible with portable POS machines, receipt printers, attendance terminals, etc., displaying transaction information, user interface, and data feedback.

Technical Drawings





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 number on the displays.

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.

Customer satisfaction 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.

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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