

2.4 Inch Industrial TFT LCD Display with 240x320 Resolution 300 Cd/m² Brightness and SPI Interface

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: IDO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.74-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- Viewing Angle: 12 O'clock
- Brightness: 300 Cd/m²(nits)
- Displaysize: 2.4 Inches
- Operating Temperature: -20°C To 70°C
- Interface: SPI (can Be Customized)
- Pin Number: 10 Pins (Customizable)
- Outline Dim.: 42.72x60.26x2.5 Mm
- Connectivity: Plug In (Customizable)



Product Description

High quality 2.4" Inch ST7789V SPI 240x320 Industrial TFT LCD Display

This 2.4-inch industrial-grade TFT liquid crystal display features ST7789V driver IC and SPI interface. With a resolution of 240x320, it's specifically designed for embedded and industrial applications, balancing compact size, low power consumption, and high stability.

Product Specifications

Product	2.4" Inch Industrial TFT Display
Resolution	240x320 Vertical/portrait
Driver IC	ST7789V Or Equivalent
Touch Screen	Resistive Touch And PCAP Optional
Cover Glass Dimension	Customizable
Interface	SPI (can Be Customized)
Pin Number	10 Pins (Customizable)
Outline Dimension	42.72x60.26x2.5 Mm
Viewing Direction	12 O'clock
Connection	Plug In (Customizable)
Surface Luminance	300 Cd/m ² (nits)
Operating Temperature	-20 To +70
LED Lifetime	40,000 Hours

Technical Details

Size: 2.4 inches (vertical)

Resolution: 240x320 pixels, RGB565 format

Panel: Mostly IPS full-view, with viewing angles of approximately 80° up, down, left, and right

Brightness: Typical 300-400 cd/m², up to 1000 cd/m² for high-brightness version

Contrast: Typical 500:1-800:1

Color: 65K/262K true colors, vibrant display

Driver IC: ST7789V, high integration, low cost

Interface: 4-wire SPI, few pins (common 14PIN FPC), simple wiring, compatible with STM32, ESP32, Arduino, etc.

Power Supply: 3.3V single power supply, low power consumption design

Operating Temperature: -20°C to +70°C (wide temperature version can reach -30°C to +80°C)

Thickness: Approximately 2.2mm, compact and lightweight

Electrostatic Discharge Resistance: Up to ESD 8KV, adaptable to complex electromagnetic environments

Surface: Scratch-resistant treatment, compliant with RoHS environmental standards

Applications

Industrial Control: PLC human-machine interface, data acquisition terminal, portable detector, stable display of parameters and status

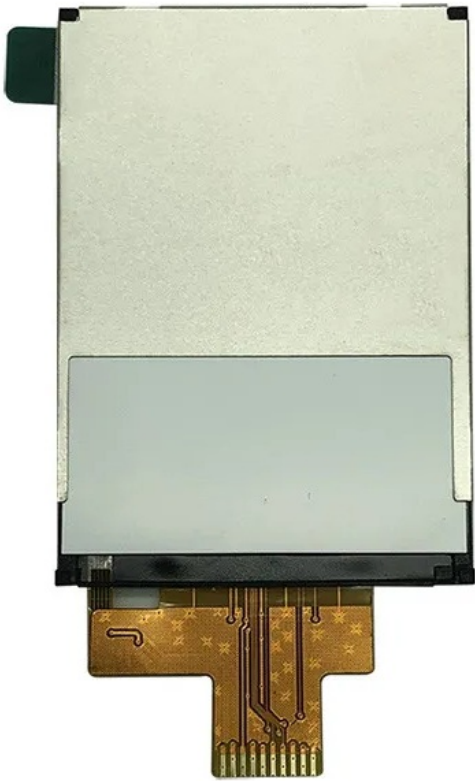
Medical Electronics: Portable devices such as blood glucose meters, blood oxygen meters, blood pressure monitors, etc., low power consumption, high reliability

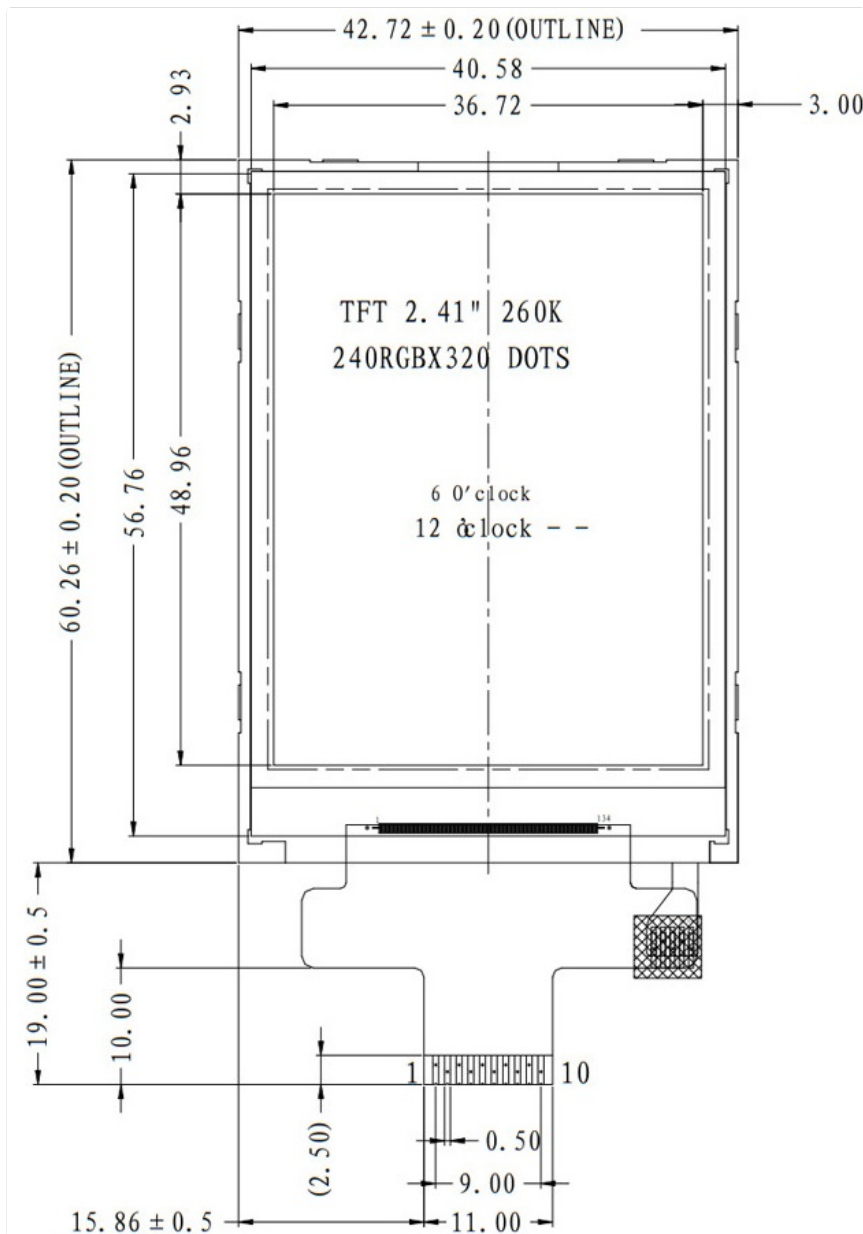
Smart Home: Smart door locks, temperature control panels, lighting controllers, miniaturized interactive interface

Consumer Electronics: Learning machines, game consoles, handheld players, vehicle recorders, high-performance color screen solutions

Embedded Development: Prototype development of STM32/ESP32, DIY projects, SPI interface easy to drive, abundant resources

Outdoor Equipment: Walkie-talkies, law enforcement devices, outdoor detectors, high brightness and wide temperature compatibility for outdoor conditions





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 Service

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 basic 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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