

2.4 Inch TFT LCD Display with QVGA 240x320 Resolution and Resistive Touch Screen

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- Pins Number: 25Pins
- Backlight Type: LED
- Pixel Arrangement: RGB-Stripe
- Viewing Angle: 12:00
- Touchscreen: Optional Resistive Or Capacitive Touch
- Interface Types: MCU (Customizable)
- Connectivity: Soldering (Customizable)
- Outline Size: 60.26x42.72 Mm
- Highlight: **2.4 Inch TFT LCD Display, QVGA 240x320 TFT Screen, Resistive Touch Screen LCD Module**



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Product Description

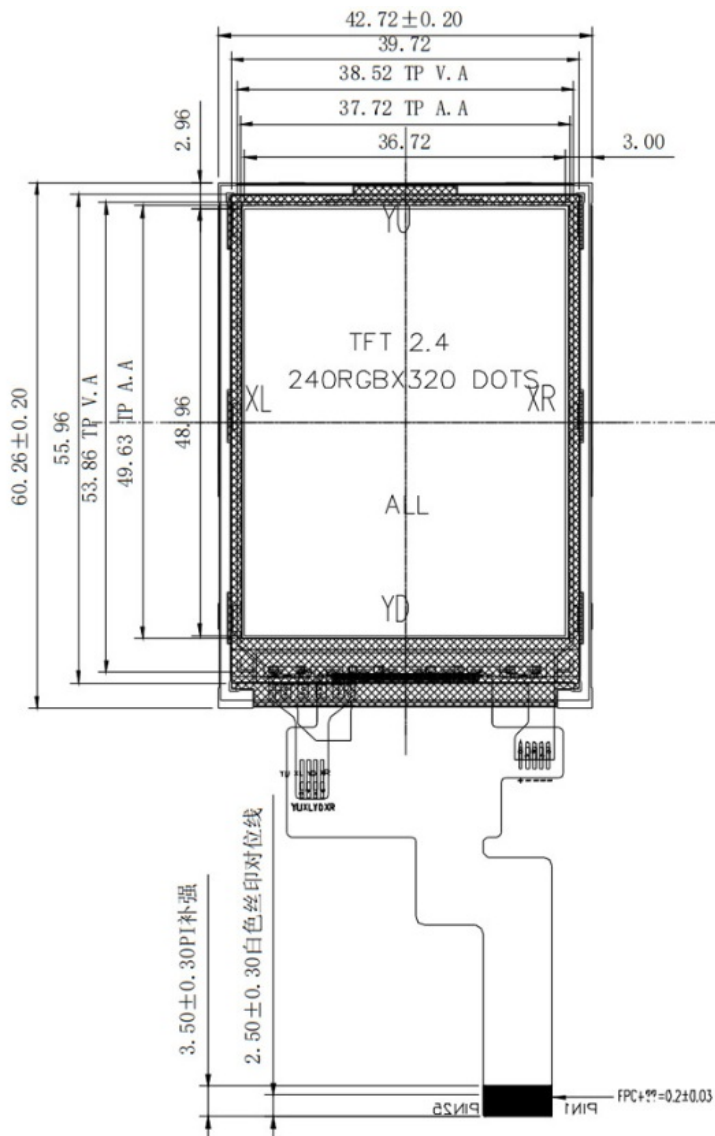
2.4" Inch TFT LCD Display QVGA 240x320 MCU With Resistive Touch Screen

A high-performance color display touch integrated module designed for embedded systems and industrial applications, featuring IPS technology for wide viewing angles and reliable resistive touch functionality.

Product Specifications

Product	2.4 Inch TFT Display	Touch Screen	Resistive Touch Panel (Customizable)
Resolution	240*320	Cover Glass Dimension	Customizable
Viewing Direction	12:00	Interface	MCU (Customizable)
Pin Number	25 Pins (Customizable)	Connection	Soldering (Customizable)
Surface Luminance	150 Cd/m ² (Customizable)	LED Lifetime	40,000 Hours
Driver IC	ST7789V	Compliance	REACH & RoHS Compliant

Technical Drawings



NO.	PIN NAME	I/O	Description
1	LED_K	0	LED Cathode
2	LED_A	0	LED Anode
3	GND	I	Ground
4	VCC	I	Power Supply 2.8V Voltage
5	IOVCC	I	Power Supply 2.8V/1.8V Voltage
6	FMARK	O	Tear effect output pin
7	/CS	I	Input pin for chip selection signal
8	RESET	I	LCM Reset input signal
9	RS	I	Register select signal
10	/WR	I	Write strobe signal input pin
11	/RD	I	Read strobe signal input pin
12	GND	I	Ground
13-20	DB7-DB0	I/O	Display Data I/O
21	GND	I	Ground
22	XR	O	Touch Panel Pin
23	YD	O	Touch Panel Pin
24	XL	O	Touch Panel Pin
25	YU	O	Touch Panel Pin

Product Core Features

This color display touch integrated module is engineered for embedded systems and industrial applications. It utilizes IPS (In-Plane Switching) technology to deliver full viewing angles of approximately 170° horizontally and vertically with minimal color shift when viewed from the side. The TFT active matrix drive provides a resolution of 240*320 pixels (QVGA vertically) and supports 65K/262K or 16.7 million colors.

The module includes a 4-wire resistive touch screen (typically using XPT2046 touch IC) that is pressure-triggered and operates reliably even with gloves or ordinary hard objects, offering strong environmental adaptability. Mainstream driver ICs include ST7789V1 and ILI9341, with multiple interface options supporting SPI (3-wire/4-wire) and compatibility with MCU/8080 parallel interfaces. Power supply is typically 3.3V (some models with level conversion support 5V), and the white LED backlight features common brightness of 300-400 cd/m² with PWM adjustability.

Operating temperature ranges from -20 to 70 , with a slim module thickness of 3-4mm and an effective display area of approximately 36.72*48.96 mm. Comprehensive driver libraries and development routines for Arduino, STM32, and Raspberry Pi ensure quick and easy integration.

Typical Applications

Handheld detection/measurement equipment: Portable multimeters, temperature/humidity/gas detectors, tire pressure gauges

Industrial control terminals: Small PLCs, frequency converters, machine tool operation panels, warehouse barcode scanners

Maker and open-source hardware projects: Human-machine interfaces for Raspberry Pi/STM32, smart home gateways, 3D printer control panels

Consumer electronics and IoT devices: Handheld POS machines, mini medical portable devices, in-vehicle small screens, smart home appliance remote controls

Battery-powered portable devices: Outdoor weather stations, handheld walkie-talkies with SPI interface for low power consumption



Frequently Asked Questions

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

Yes, we can accommodate this requirement. Please provide your specifications or drawing. If you don't have specifications, you can send samples, and we'll recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but the size is too big. Do you have smaller sizes? The display content also needs minor changes.

For segment type LCD modules, modifying outline size or display content requires a new LCD glass module, which involves creating new tooling.

This LCD display is HTN type, but I want STN type. Can you make it?

Yes, we can change the display type according to your request.

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

Yes, we specialize in custom LCD modules. Please provide your drawing or specify the outline size, display information (glass thickness,

polarizer, display type, connector mode, storage/operating temperature, supply voltage, viewing direction, drive conditions).

What is the lead time for tooling?

Typically 15 to 25 days after drawing confirmation and tooling charge payment. We'll provide exact timing upon drawing confirmation.

Can you send samples for evaluation?

Yes, sample orders are available.

What is the lead time for production?

For standard products in stock, lead time is one day after payment. For mass production of special orders, lead time is approximately 15-30 days. We'll notify you if we can complete earlier.



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