

2.4-Inch IPS TFT LCD Display with 240x320 Resolution and MCU Interface for Easy Integration

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



Product Specification

- Viewing Direction: IPS All Viewing Angles
- Pins Number: 25 Pins
- Connect: Soldering
- Backlight: White LED
- Lcd Type: IPS
- Product Type: TFT LCD Screen
- Display Technology: TFT LCD
- Display Mode: TFT/Transmissive
- Highlight: **2.4-Inch TFT LCD Display ,
240x320 Resolution IPS TFT Screen ,
MCU Interface TFT LCD Module**



2.4-Inch IPS TFT LCD Display QVGA 240x320 Resolution MCU Interface With RTP

Product:	2.4 Inch TFT Display	Resolution:	240x320
Touch Screen:	Resistive Touch Panel	Viewing Direction:	IPS All Viewing Angles
Interface:	MCU	Pin Number:	25 Pins
Connection:	Soldering	Surface Luminance:	250 Cd/m ²
Driver IC:	ST7789V	LED Lifetime:	40,000 Hours

Key Features

- Size: 2.4 inches
- Resolution: 240x320 (QVGA)
- Technology: IPS TFT LCD for bright colors and wide angles
- Interface: Compatible with MCU for easy integration
- Touch: Resistive Touch Panel (RTP) for user-friendly interaction

This 2.4-inch IPS TFT LCD display with QVGA 240x320 resolution, MCU interface and RTP is a versatile small-sized display module suitable for various applications.

Product Introduction

Size and Resolution: The screen diagonal length is 2.4 inches with a resolution of 240x320 pixels (QVGA), providing clear display of text, graphics, and information.

Display Technology: Features IPS (In-Plane Switching) technology with 178° viewing angles from all directions, ensuring consistent color and clarity. Utilizes TFT (Thin Film Transistor) technology with independent pixel switching for high-speed refresh rates, precise color control, realistic color performance, and high contrast.

Interface Type: MCU (Microcontroller Unit) interface enables easy connection to various microcontrollers including STM32 and Arduino for seamless data transmission and control.

Touch Screen: RTP (Resistive Touch Panel) detects touch positions through resistance changes when pressed, offering simple operation, low cost, and suitability for single-point touch applications.

Other Parameters: Equipped with LED backlight with brightness ranging from 200 to 350 cd/m² (high-brightness models up to 1700 cd/m²). Operating temperature range: -20°C to +70°C; storage temperature range: -30°C to +80°C, ensuring reliable performance in various environments.

Product Applications

Smart Home: Information display and operation interface for smart door locks, temperature control panels, and lighting controllers

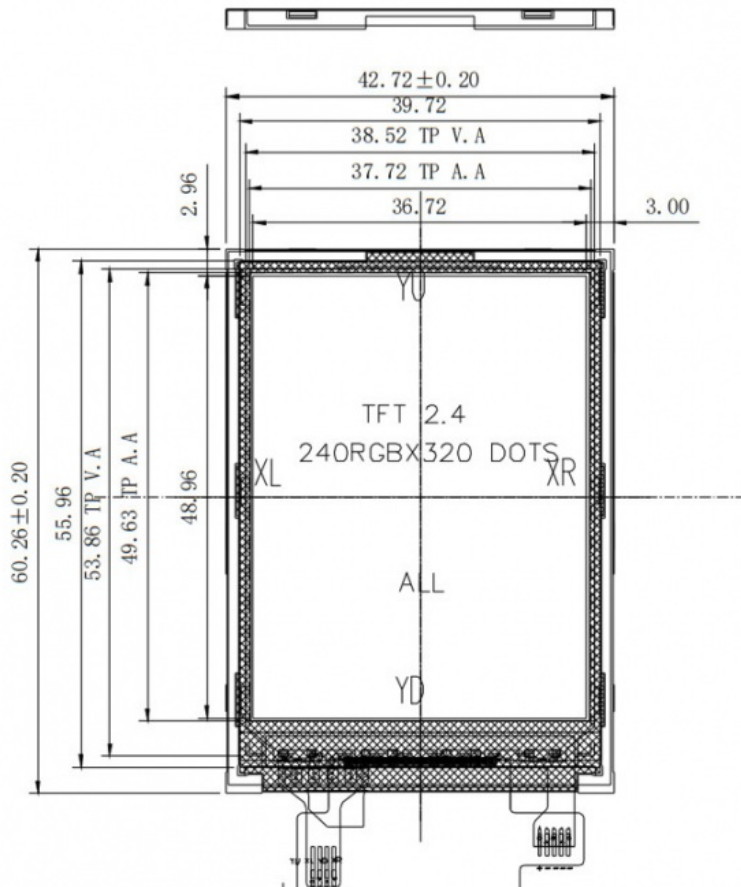
Industrial Control: Data acquisition terminals, portable detectors, PLC controllers for temperature, voltage monitoring

Medical Electronics: Blood pressure monitors, blood glucose meters, heart rate monitors requiring stable, accurate display

Consumer Electronics: Learning machines, electronic photo albums, game consoles, handheld audio/video players

Communication & Security: Walkie-talkies, wireless control terminals, access control devices for status display and menu operations

Instrumentation: Power detection instruments, gas analyzers, flow meters for real-time data display and alarm prompts



Interface Pin Definition

NO.	PIN NAME	I/O	Description
1	LED_K	O	LED Cathode
2	LED_A	O	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



Frequently Asked Questions

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

No problem. Please send us your specifications or drawing. If you don't have specifications, you can provide samples and we'll recommend suitable standard products or customize based on your requirements.

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 segment type LCD modules, modifying outline size or display content requires a new LCD glass module with custom tooling.

This LCD display is HTN type, but I want STN type, can you make?

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

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

Yes, we can customize LCD modules. Please send your drawing or provide 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 us samples for checking?

Yes, sample orders are available.

What is the lead time?

For standard products in stock: 1 day after payment. For mass production of special orders: approximately 15-30 days. We'll notify you if we can complete earlier.



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