

2.4 Inch 240x320 Resolution IPS TFT LCD Display with RTP Touch and MCU Interface

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: 80° / 80° / 80° / 80° (IPS Wide View)
- Touch Screen: RTP
- Storage Temperature: -30°C To 80°C
- Screen Size: 2.4 Inches
- Backlight Technology: LED
- Pin Number: 25 PIN
- Resolution: 240*320 Pixels
- Surface Luminance: 250 Cd/m² Cd/m²(nits)
- Highlight: **2.4 Inch TFT LCD Display, 240x320 Resolution IPS TFT Screen, RTP Touch LCD Module**



Product Description

2.4 Inch 240x320 MCU Interface with RTP Touch IPS TFT LCD Display

This 2.4-inch IPS TFT LCD module integrates a resistive touch panel (RTP) and features an MCU parallel interface. It's a versatile small-screen display solution ideal for consumer electronics, industrial control, and smart hardware applications.

Technical Specifications

Product	TFT LCD Display With RTP
Screen Size	2.4 Inch (Diagonal)
Resolution	240 (RGB) × 320 Pixels (QVGA)
Panel Technology	IPS (In-Plane Switching)
Driver IC	ST7789V
Interface	8-bit MCU Parallel (8080-series Compatible)
Touchscreen	4-Wire Resistive Touch Panel (RTP)
Brightness (Typical)	250 Cd/m ²
Operating Temperature	-20°C to +70°C
Viewing Angle	80° / 80° / 80° / 80° (IPS Wide View)

Display Performance

The IPS technology provides a 178° full viewing angle with consistent color accuracy from any direction. The 240×320 resolution delivers appropriate pixel density for clear presentation of colored text, icons, graphics, and dynamic images. TFT active matrix driving ensures fast response times, no screen flickering, uniform color reproduction, and support for 260,000-color display effects.

Touch Functionality

The integrated RTP resistive touch screen supports single-point touch operations with sensitive response, accurate positioning, and strong anti-interference capability. It enables direct interaction with control circuits, achieving seamless "display + operation" integration without complex touch drivers.

Interface & Compatibility

The standard MCU parallel interface offers universal compatibility with mainstream microcontrollers including 51 single-chip microcontrollers, STM32, and Arduino. This eliminates the need for additional adapter boards or driver chips, reducing hardware development complexity and shortening product development cycles.

Design & Reliability

Featuring a standardized thin design with flexible installation options (FPC wiring or pin interface), the module supports surface mount and plug-in integration. It operates efficiently with low power consumption, adaptable voltage supply (typically 3.3V/5V), and maintains stable performance across a wide temperature range (-20°C to +70°C).

Core Applications

Industrial Control Devices: Handheld detection instruments, portable measurement terminals, PLC operation screens, sensor data displays

Consumer Electronics: Portable Bluetooth speakers, mini game consoles, barcode scanners, electronic dictionaries

Smart Home Appliances: Control panels for smart appliances, kitchen appliances, handheld remote controllers

Medical Equipment: Blood glucose meters, pulse oximeters, portable blood pressure monitors, health detectors

Automotive Systems: Tire pressure monitoring, vehicle recorder displays, car Bluetooth players

Development & Education: Microcontroller teaching platforms, maker DIY projects, robot control displays

Security & Wearables: Camera display terminals, access control systems, handheld walkie-talkie panels



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 unavailable, we can recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but it's too large. Do you have smaller sizes with modified display content?

For segment type LCD modules requiring size or content modifications, we can create new tooling to produce customized LCD glass modules.

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

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

Can you customize a new LCD module?

Absolutely. Please provide your drawing or specifications including outline size, display information, glass thickness, polarizer type, display type, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions.

What is the lead time for tooling?

Typically 15-25 days after drawing confirmation and tooling charge payment. Exact timing will be confirmed upon drawing approval.

Can you send samples for evaluation?

Yes, sample orders are available for your testing and evaluation.

What is the lead time for production?

Standard products in stock ship within one day after payment. Mass production for custom orders typically takes 15-30 days, with earlier completion communicated in advance when possible.



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