

7 Inch 800x480 Dots RGB 24 Bit TFT LCD Display With Resistive Touch Panel

Our Product Introduction

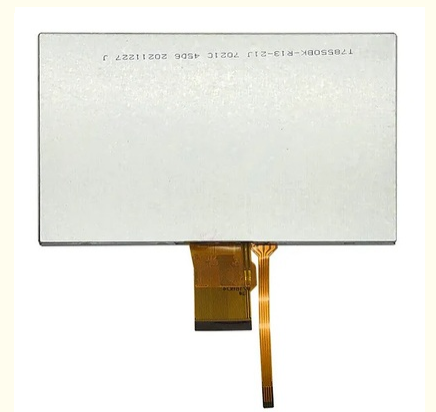
Basic Information

- 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

- Highlight: **7 inch TFT LCD display , 800x480 RGB touch screen, resistive touch panel LCD**



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Product Description

7 Inch 800x480 Dots RGB 24 Bit Interface TFT LCD Display With Resistive Touch Panel

Product Specifications

Product:	7 Inch TFT Touch LCD	Resolution:	800x480 Pixels
Interface:	RGB 24 Bits	Outline Dimension:	164.9x100x6.8 mm
Touch Screen:	With Resistive Touch Screen	Cover Glass Dimension:	Customizable
Viewing Direction:	6 O'clock	Pin Number:	50 Pins
Connection:	Plugging	Surface Luminance:	300 Cd/m ² (nits)
LED Lifetime:	40,000 Hours	Compliance:	REACH & RoHS Compliant

Product Introduction

This 7-inch TFT liquid crystal display module features a resolution of 800×480, RGB 24-bit parallel interface, and integrated four-wire resistive touch screen. Characterized by high cost-effectiveness, industrial-grade stability, and strong environmental adaptability, it serves as a classic general-purpose screen for embedded and industrial control applications.

Display Section (TFT LCD)

Size and Ratio: 7-inch diagonal, 16:9 widescreen format offering balanced portability and viewing area

Resolution: 800×480 (WVGA), 24-bit RGB true color (16.7M colors) for clear, sharp text and graphics

Panel and Viewing Angle: Typically TN panels with 70°/50° viewing angles; upgraded models available with MVA/IPS technology and 140°-170° viewing angles

Brightness and Contrast: 250-400 cd/m² brightness with 500:1-800:1 contrast ratio for excellent indoor clarity

Backlight and Lifespan: LED side-backlit design with approximately 1-2W power consumption and over 50,000 hours lifespan for stable long-term operation

Interface: 24-bit RGB parallel interface (40Pin FFC/FPC) for high-speed transmission and stable image quality, compatible with mainstream embedded controllers including STM32 and ARM

Touch Section (Resistive)

Type: Four-wire resistive touch screen (RTP) with pressure sensing activation

Features: Single-point touch with precise positioning, strong anti-interference capability, and low cost

Performance: 80% light transmittance with service life up to 1 million presses

Advantages: Resistant to dust, moisture, and oil stains; stable operation with gloves; no capacitor screen errors or response issues

Structure and Environment

Thickness: Approximately 2.5-3.5 mm with PCB baseplate for easy integration and installation

Operating Temperature: -20°C to +70°C industrial-grade wide temperature range suitable for harsh conditions

Protection: Scratch-resistant surface with optional dust and moisture resistance; compatible for 24-hour continuous indoor operation

Main Applications

Industrial Control HMI: PLC human-machine interfaces, equipment control panels, automation production line terminals

Smart Terminal and Equipment: Medical portable monitors, IoT gateways, data collectors, intelligent delivery systems

Vehicle and Security: Vehicle monitoring terminals, rearview mirrors, driving record devices, access control systems

Smart Home and Commercial: Control panels, video doorbells, cash registers, self-service kiosks

Embedded Development and DIY: STM32/Arduino prototype development, teaching experiments, open-source projects

Core Advantages

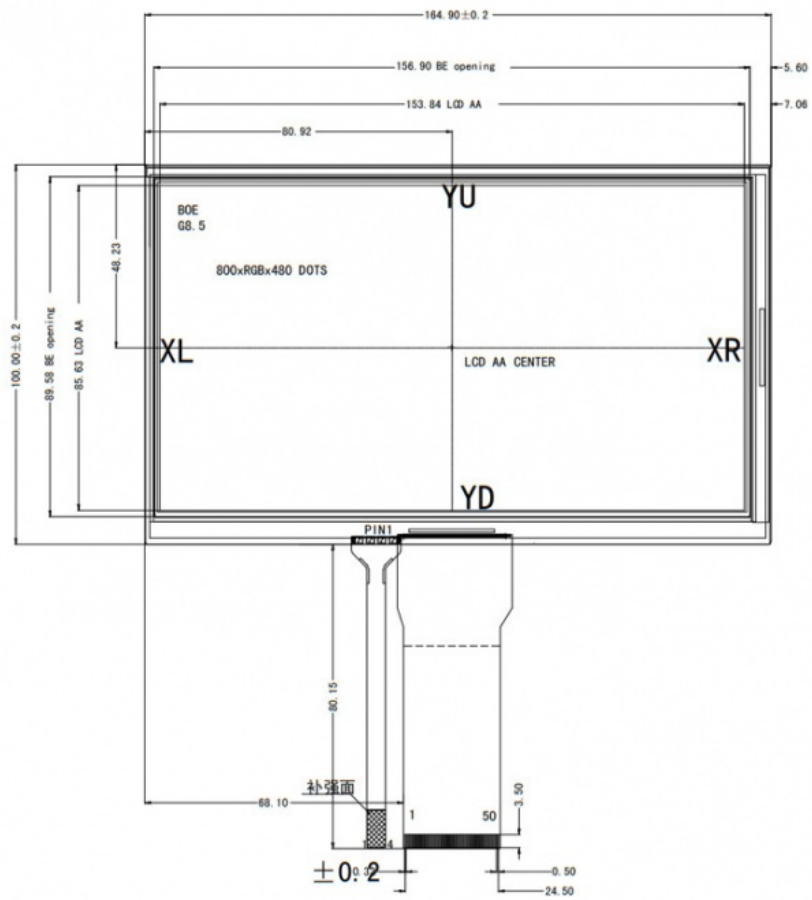
Stable and Mature: Resistive touch + RGB interface solution with proven industrial market reliability

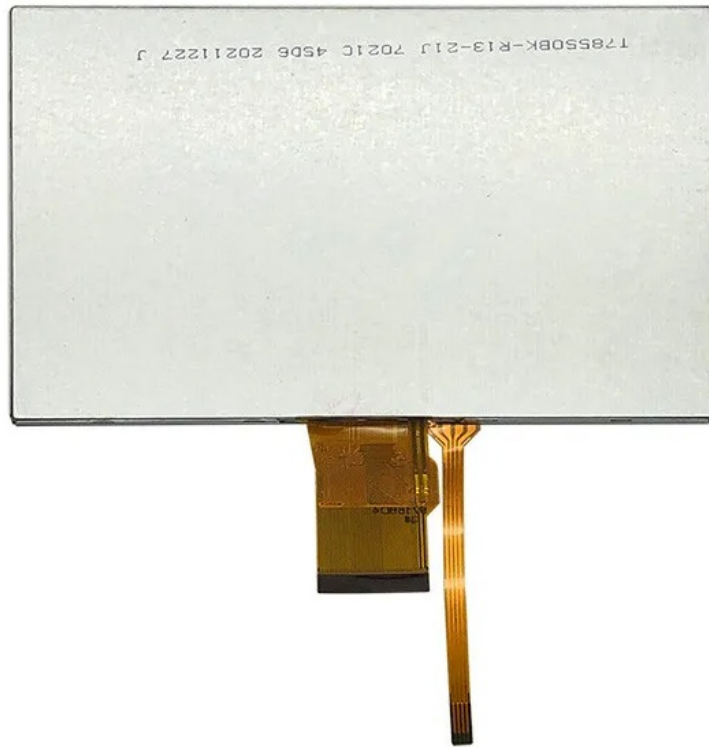
Cost-Effective: Competitive pricing compared to capacitive screens of similar size

Environment Adaptability: Reliable performance in dust, moisture, and oil stain environments with glove operation

Versatile: 7-inch size with 800x480 resolution suitable for embedded, industrial control, and commercial applications

Technical Drawings





Product Video

Our Service Commitment

- Free repair within one year after product shipment
 - Replacement within 30 days for product-related issues
 - Custom logo printing and model number application available
 - Established shipping partnerships with volume discounts
 - Professional technical support and responsive after-sales service team
 - Comprehensive inspection and testing by engineers and QC/QA before shipment
 - 24-hour response guarantee for all customer inquiries and issues
 - Customization services available based on customer specifications or drawings
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Frequently Asked Questions

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

Yes, we can accommodate custom specifications. Please provide your detailed specification document or drawing. If you don't have specifications, you can send samples and we'll recommend suitable options or customize based on your requirements.

This LCD is what we want, but the size is too large. Do you have smaller sizes? Can the display content be modified?

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

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

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

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

Absolutely. Please provide your drawing document. If unavailable, please specify the outline size, display information (glass thickness, polarizer, display type, connector mode, temperature specifications, voltage requirements, viewing direction, drive conditions), and we'll customize accordingly.

What is the lead time for tooling development?

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

Can you send samples for evaluation?

Yes, sample orders are available for customer evaluation.

What is the production lead time?

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



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