

## 4 Inch 480x480 Dots Resolution RGB+SPI Interface IPS All Viewing Angle TFT LCD Display Module

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

- Display Size: 4 Inches
- Interface: RGB+SPI
- Pin Number: 40 Pins
- Connection: ZIF
- Touch Screen: Without Touch, ( With CTP Optional)
- Surface Luminance: 420 Cd/m2(nits)
- Viewing Direction: All Viewing Angle, IPS
- Response Time: 5 Ms
- Highlight: **480x480 Dots Resolution TFT LCD Display, RGB+SPI Interface TFT Screen, IPS All Viewing Angle LCD Display Module**



## Product Description

### 4" 480×480 Dots Resolution RGB and SPI Square TFT LCD Display

#### Product Overview

High-performance 4-inch square TFT LCD display module featuring IPS technology with 480×480 resolution, combining RGB parallel interface for high-speed display and SPI serial interface for configuration.

#### Technical Specifications

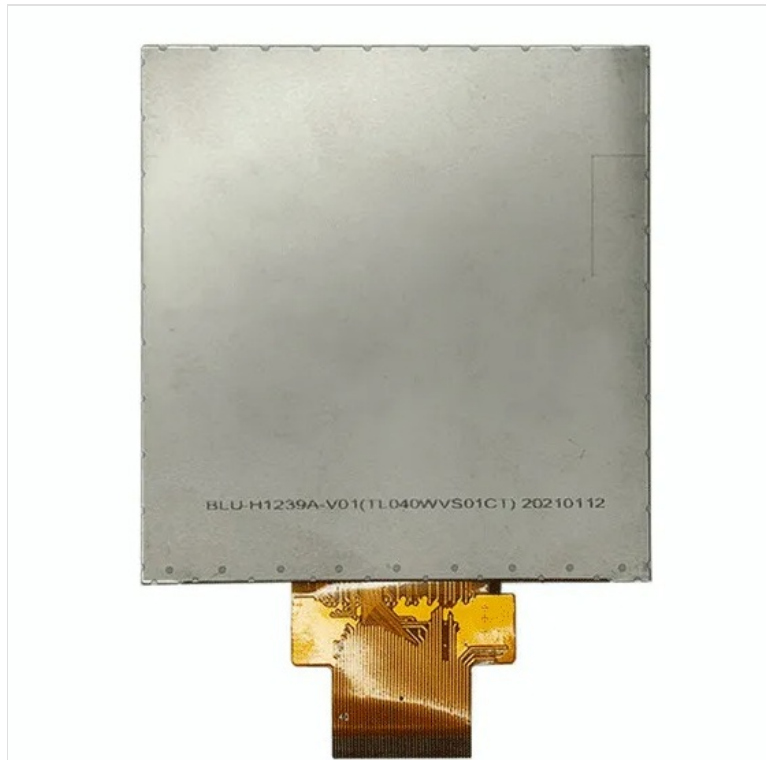
Parameter	Specification	Parameter	Specification
Product	4 Inch TFT Square Display	Touch Screen	Without Touch (With CTP Optional)
Resolution	480×480	Cover Glass Dimension	Customizable
Viewing Direction	All Viewing Angle, IPS	Interface	RGB+SPI
Pin Number	40 Pins	Connection	ZIF
Surface Luminance	420 Cd/m <sup>2</sup> (nits) Typical	LED Lifetime	40,000 Hours

#### Product Features

- Display Technology:** IPS TFT with true 1:1 square aspect ratio (3.95" diagonal)
- Color Performance:** 16-18bit full color supporting 260,000+ colors with vivid reproduction
- Viewing Experience:** 80° wide viewing angle in all directions with minimal color shift
- Brightness Range:** 300-400 cd/m<sup>2</sup> for excellent outdoor visibility
- Temperature Range:** Operating temperature -20°C to 70°C for industrial applications
- Interface Flexibility:** RGB for high-speed pixel rendering and SPI for configuration
- Compact Design:** Approximately 3mm thickness with 84×84mm dimensions
- Connectivity:** FPC flexible ribbon cable with ZIF connector for easy integration
- Touch Options:** Capacitive touch screen with fast response and multi-point support
- Compatibility:** Works with ESP32, Raspberry Pi, STM32, and other mainstream MCUs

#### Primary Applications

- Smart Home & Building Control:** Control panels for smart switches, thermostats, and access systems
- Industrial Instruments:** Portable detectors, PLC interfaces, and monitoring devices
- Medical Equipment:** Diagnostic devices and patient monitoring systems
- IoT Terminals:** Smart wearables, logistics scanners, and agricultural sensor displays
- Maker Projects:** Robot controllers, 3D printer interfaces, and vehicle dashboards
- Consumer Electronics:** Bluetooth speaker controls, camera preview screens, and appliance interfaces



## 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 technical drawings, you can send samples and we'll recommend suitable options or create custom solutions based on your requirements.

### **This LCD is what we want, but it's too large. Do you have smaller sizes? We also need minor display content modifications.**

For segment-type LCD modules requiring size changes or display content modifications, we need to create new LCD glass modules. This requires new tooling development specifically for your project.

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

Absolutely. We can modify the display type to STN according to your specific requirements and application needs.

### **Can you customize a new LCD module for our application?**

Yes, we specialize in custom LCD module development. Please provide your technical drawings. If drawings aren't available, please specify the outline dimensions, display information (glass thickness, polarizer type, display technology, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions).

**What is the typical lead time for tooling development?**

Tooling typically requires 15-25 days after drawing confirmation and tooling charge payment. We provide exact timelines once technical drawings are finalized and approved.

**Can you provide samples for evaluation and testing?**

Yes, sample orders are available for quality verification and compatibility testing.

**What are your production lead times?**

For standard products in stock, lead time is one day after payment confirmation. For mass production of custom orders, typical lead time is 15-30 days. We proactively communicate if we can complete orders ahead of schedule.



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