



## 4 Inch TFT LCD Display with SPI+RGB Interface and IPS Full Viewing Angle Capacitive 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

- Operating Temp: -20°C To +70°C
- Active Area Size: 51.84×86.40 Mm
- Storage Temperature: -30°C To 80°C
- Touchscreen: Optional Capacitive Or Resistive
- Screen Size: 4 Inches
- Viewing Direction: IPS Full Viewing Angle(80/80/80/80)
- Display Color: 16.7M
- Brightness: 400 Cd/m<sup>2</sup>
- Highlight: **4 inch TFT LCD display with IPS, SPI+RGB interface LCD screen, capacitive touch screen with full viewing angle**



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## Product Description

### 4 Inch TFT LCD SPI+RGB Interface IPS Capacitive Touch Screen

#### Product Specifications

Product	4"inch PCAP TFT Display
Resolution	480x800
Driver IC	NT35510
Connection	Plugging
Interface	SPI + RGB 24 Bits
Power Supply Voltage For Logic	0.3~4.6
Touch Screen	With Capacitive Touch Screen
Viewing Direction	IPS All Viewing Angles
Pin Number	51 Pins
Surface Luminance	400 Cd/m <sup>2</sup> (nits)
LED Lifetime	40,000 Hours
Input Voltage	VDD+0.3 V
Operating Temperature	-20 To 70 °C
Storage Temperature	-30 To 80 °C
Backlight Supply Current	20 MA
Backlight Color	White
Backlight Supply Voltage	25.6 V
Backlight Power Dissipation	512 MW

#### Technical Drawing



#### Product Introduction

This is a 4-inch (3.97-inch) TFT LCD display module with a resolution of 480×800 (vertical screen). It features an IPS full-view panel, combined with SPI + RGB 24-bit dual interfaces, and integrates a capacitive touch screen (CTP). It is a common high-definition display and touch solution used in industrial and portable devices.

#### Core Parameters

**Display characteristics:** IPS panel, full viewing angles (up, down, left, right) (approximately 170°), 16.7M colors, typical brightness 300-400 cd/m<sup>2</sup>, contrast 500:1-800:1, vivid colors and clear details.

**Interfaces and drivers:** SPI (control/configuration) + RGB 24-bit (high-speed display) dual interface, driver IC commonly NT35510/ST7701S, touch IC GT911 (I2C), compatible with mainstream embedded controllers such as STM32, RK, etc.

**Structure and size:** Shape approximately 57.14×96.85×2.0 mm, effective display area 51.84×86.40 mm, FPC soft board connection, thin thickness, convenient integration.

**Touch and environment:** Capacitive touch screen, supports multi-touch (5 points), surface tempered glass, anti-fingerprint; industrial-grade wide temperature range -20°C to +70°C, anti-static (ESD 8KV), suitable for complex working conditions.

#### Main Applications

**Industrial control:** PLC human-machine interface (HMI), industrial touch panels, equipment status display, suitable for workshops, outdoor, etc. strong light / wide temperature environments.

**Smart handheld devices:** Portable detectors, data collectors, IoT terminals, intelligent remote controllers, balancing low power consumption

and high-definition display.

**Smart home:** Smart door locks, indoor visual intercom units, control panels, kitchen appliances (such as ovens / rice cookers) touch screens.

**Medical equipment:** Portable monitors, blood glucose meters, physiotherapy devices, medical control panels, meeting low radiation and high stability requirements.

**Consumer electronics:** Portable players, digital photo frames, educational early education machines, in-vehicle aftermarket displays, balancing cost and display effect.

## Summary of Features

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**IPS full viewing angle:** Colors / brightness are consistent at any angle, no color bias.

**Dual interface flexibility:** SPI simplifies configuration, RGB high-speed refresh loads high-definition images.

**Capacitive touch sensitive:** Supports multi-touch, smooth operation, durable.

**Industrial-grade reliability:** Wide temperature range, anti-static, low power consumption, suitable for harsh scenarios.

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## Frequently Asked Questions

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

No problem. Firstly, please kindly send us your specification/ drawing paper. If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

### 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 the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.

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

That's all right. We can change for you as per you request.

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

Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.

### What is leading time for tooling?

General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.

### Can you send us samples for checking?

Yes. Samples order is available.

### What is the Leading Time?

If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. Suppose we can finish earlier, we will report the information in advanced.

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## Our Service

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Free repair within one year after the shipment of products from us.

Replacement within 30 days after the shipment of products from us due to products' problems.

We can print your logo and stick your model No. on the cameras.

We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts.

Professional technician supports. We have a good after-sales service team. They can solve your problems in time.

All goods will be inspected and tested by our engineers and QC/QA before packing and shipment.

Customers satisfactory is most important to us. If you have any problem or questions regarding our transaction. Please contact us by Email or online. It will be responded within 24 hours.

Products pictures only for your reference. Please kindly refer to the specification. We can provide the products basic on the specification. Or you can offer your own specification or drawing, we can customize all kinds of LCD displays for you.



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