



## 2.4 Inch TFT LCD Screen with 240x320 Pixels Resolution SPI Serial Interface and IPS All Viewing Angles

Our Product Introduction

### 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

- Colors: 262K
- Operating Temperature: -20°C To +70°C
- Fpc Connect: 10 Pins
- Viewing Angle: IPS, All Viewing Angles
- Backlight Type: LED
- Overall Dimensions: 42.72(W) X 59.46(H) X 2.34(T)
- Active Area: 36.72(W) X 48.96(H)
- Resolution: 240\*320 Pixels
- Highlight: **240x320 Pixels TFT LCD Screen, SPI Serial Interface TFT Display, IPS All Viewing Angles LCD Module**



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## Product Description

### 240×320 Pixels TFT 2.4 Inch Display SPI Serial Interface IPS 65K

This 2.4-inch IPS TFT LCD display offers high-resolution 240×320 pixel clarity with vivid 65K color reproduction. Featuring an SPI serial interface and ST7789V driver IC, it delivers excellent viewing angles and reliable performance for various applications.

#### Technical Specifications

Product	2.4 Inch IPS TFT LCD	Resolution	240×320 Pixel
Touch Screen	Without	Viewing Direction	IPS, All Viewing Angles
Interface	SPI	Pin Number	10 Pins (24pin Optional)
Connection	Plug-in	Surface Luminance	400 Cd/m <sup>2</sup> (Customizable)
Driver IC	ST7789V	LED Lifetime	40,000 Hours
Operating Temp.	-20°C to +70°C	Compliance	REACH & RoHS Compliant

#### Product Overview

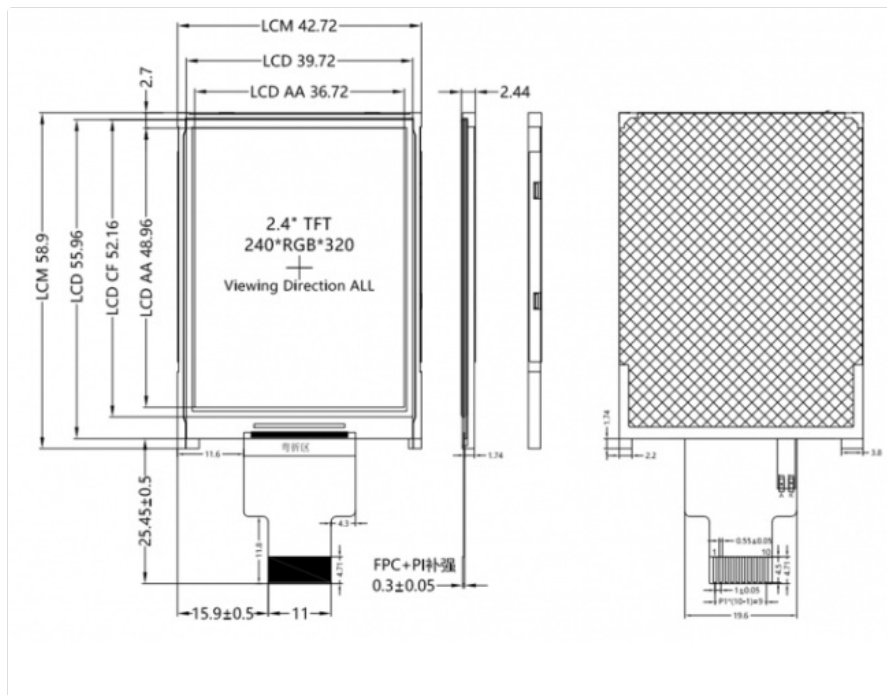
The 2.4-inch TFT LCD screen is a versatile active matrix display featuring high resolution, vibrant colors, and rapid response times. Its applications span embedded systems, consumer electronics, and industrial control environments. In consumer electronics, this display is ideal for smart wearable devices, portable gaming consoles, and smart home control panels, offering full-color reproduction and wide viewing angles that meet modern display requirements.

This IPS TFT display provides crisp 240×320 pixel resolution with ST7789V driver IC supporting multiple interfaces and high color depth. With SPI interface capability and 400cd/m<sup>2</sup> brightness, it adapts to diverse lighting conditions. IPS technology ensures nearly 180° full field of view for optimal visual experience from any angle. Operating temperature range of -20°C to 70°C and storage range of -30°C to 80°C guarantee performance stability across various environmental conditions.

#### Detailed Features

Item	Specification	Unit
Display Mode	Normally Black, Transmissive	/
Viewing Direction	ALL	/
Colors	262K	/
Drive IC	ST7789	/
Interface Type	4 Line SPI	/
Dimensional Outline	42.72(W) × 59.46(H) × 2.34(T)	mm
Active Area	36.72(W) × 48.96(H)	mm
Resolution	240 RGB(H) × 320(V)	pixels
Pixel Pitch	0.153(W) × 0.153(H)	mm





Pin.No	Symbol	Description
1	GND	Ground
2	RS	Register select pin, RS='1': Display data. RS='0': Command data.
3	CS	Chip select pin("Low" enable)
4	SCL	Serial clock pin.
5	SDA	Serial data input/output
6	RESET	LCM Reset pin
7	VCC	Power supply for Analog(2.8V-3.3V)
8	GND	Ground
9	LED+	Anode of Backlight
10	LED-	Cathode of Backlight

## 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 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 requiring size modifications or display content changes, we need to create new LCD glass modules with custom tooling.

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

That's all right. We can change the display type according to your request.

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

Yes, we can. Please send your drawing. If you don't have one, provide the outline size, display information (glass thickness, polarizer, display type, connector mode, storage/operating temperature, supply voltage, viewing direction, drive conditions) and we'll customize for you.

### What is leading time for tooling?

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

### Can you send us samples for checking?

Yes, sample orders are available.

### What is the Leading Time?

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



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