

## 2.2 Inch TFT LCD Screen with 12 O'Clock View Angle and SPI RGB MCU Interface ISO Certified Display Module

### 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

- Technology: LCD
- Touchscreen: No
- Viewing Angle: 12 O ' Clock
- Colors: 262K
- Product Type: TFT LCD Screen
- Light Source: White LED\*6
- Backlight Technology: LED
- Display Type: TFT
- Highlight: 12 O'Clock View Angle TFT LCD Screen ,  
ISO Certified LCD Display Module ,  
SPI RGB MCU Interface TFT Display



### 250Cd / M2 TFT LCD Screen IPS 240 \* 320 Dots 2.2 Inch ISO Certificate

#### Product Specifications

Item	Contents	Description
1	Product Name	2.2 Inch TFT LCD Display IPS 240 * 320 Dots LCD Screen Module With SPI RGB MCU Interface
2	Module Size	40.6 mm * 56.6 mm * 2.7 mm T
3	Resolution	240 * 320
4	Panel Type	a-si TFT
5	View Angle	12 O 'Clock
6	Interface Type	R.G.B. Vertical Strip
7	Pins Number	22 Pins
8	Controller/Driver	ST7789V

#### Product Introduction

**Dimensions and Appearance:** The diagonal size of the screen is 2.2 inches, which falls within the medium-small size category. It is compact in size and easy to be embedded in various small devices.

**Display Technology:** It adopts TFT (Thin Film Transistor) technology, featuring high color reproduction accuracy and fast response speed, and can present vivid and clear images.

**Resolution:** Common resolutions include 176×220, 240×320, etc. Different resolutions can meet various display precision requirements.

**Viewing Angle:** The 12 o'clock viewing angle refers to the best display effect when viewing from the top of the screen (i.e., the 12 o'clock direction). The image color and clarity are not significantly affected. Viewing from other angles may result in color deviations or reduced brightness.

**Interface Types:** It has multiple interface types such as SPI, RGB, MCU, etc. The SPI interface has the characteristics of simple wiring and low cost, suitable for low-speed data transmission; the RGB interface can achieve high-speed data transmission and provide richer colors and higher refresh rates; the MCU interface is convenient for direct connection with microcontrollers, facilitating system integration and control.

**Certification:** It has passed ISO certification, indicating that the display module complies with ISO-related standards, meeting certain requirements in terms of quality, environmental management, etc., and has high reliability and stability.

**Driver Chips:** Different models of displays may use different driver chips, such as ILI9225G, etc. These chips are responsible for controlling the display operations of the screen, including image generation, color conversion, etc.

#### Product application

**Industrial control:** It can be used in small industrial instruments, PLC control terminals and other devices, displaying real-time data, operation menus and other information, helping operators monitor and control industrial production processes.

**Medical equipment:** Such as portable electrocardiogram devices, external displays of blood glucose testers, etc. Its clear display effect enables medical staff or patients to quickly read the data.

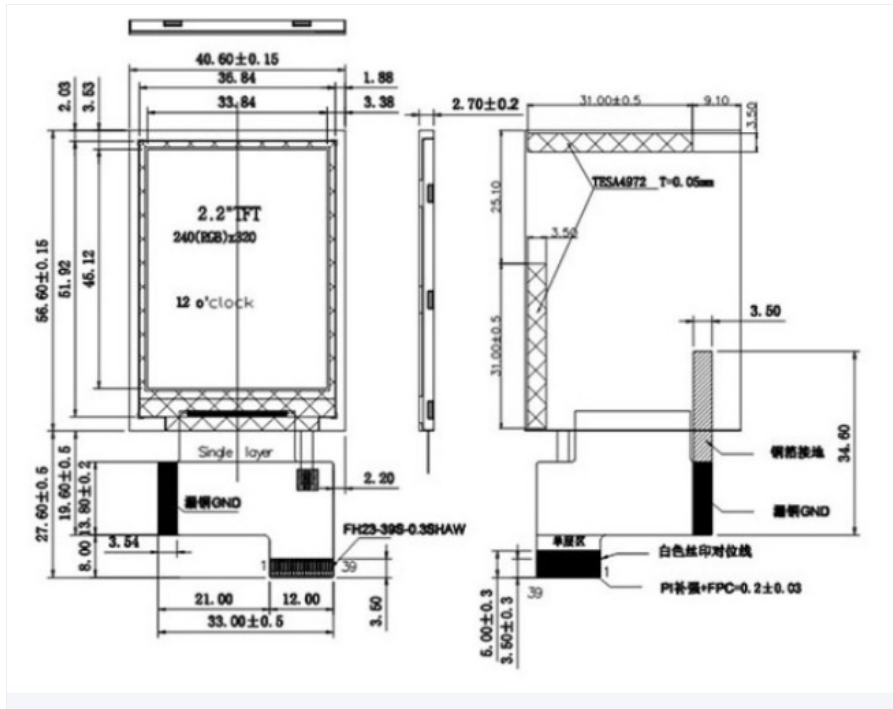
**Smart home:** It can be installed on smart access control systems, smart peepholes, smart temperature controllers and other devices, serving as a human-computer interaction interface, displaying device status, operation prompts and other information.

**Consumer electronics:** Applicable to smart watches, portable learning devices, small game terminals and other products, providing users with clear images and convenient operation interfaces.

**Security equipment:** Can be used as the display screen of surveillance cameras to show real-time surveillance images, or installed on access control systems and alarm devices to display relevant information.

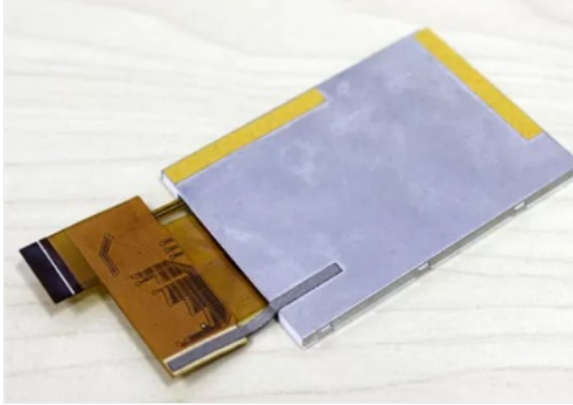
**Handheld devices:** Such as handheld data collectors, portable measuring instruments, etc. The 2.2-inch screen size is moderate, convenient for carrying and operation, and can meet the display requirements of the equipment.

## Structure Diagram



## Pin Definition

Pin No.	Symbol	I/O	Function	Remark
1	VCC	P	Power supply(2.8V)	-
2	GND	P	Ground	-
3	RESET	I	Reset signal (Low: active)	-
4	CS		Chip select signal (Low:active)	-
5	SCL	I	This pin is used as the serial interface clock in 3-wire 9-bit/4-wire 8-bit serial data interface.	-
6	VSYNC		Frame synchronizing signal for RGB interface operation.	-
7	HSYNC	I	Line synchronizing signal for RGB interface operation.	-
8	ENABLE	I	Data enable signal for RGB interface operation.	-
9	DOTCLK	I	Dot clock signal for RGB interface operation.	-
10	SDA	I/O	Serial in/out signal.	-
11	LEDK	P	BL-	-
12	LEDA	P	BL+	-
13	DB0	I/O	DATA BUS	-
14	DB1			-
15	DB2			-
16	DB3			-
17	DB4			-
18	DB5			-
19	GND	P	Ground	
20	GND	P	Ground	
21	NC	-		
22	NC	-		
23				
24				



### Our Services

1. Free repair within one year after the shipment of products from us.
2. Replacement within 30 days after the shipment of products from us due to products' problems.
3. We can print your logo and stick your model No. on the products.
4. We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts.
5. Professional technician supports. We have a good after-sales service team. They can solve your problems in time.
6. All goods will be inspected and tested by our engineers and QC/QA before packing and shipment.
7. Customer satisfaction 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.
8. Products pictures only for your reference. Please kindly refer to the specification. We can provide the products based 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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