

1.9 Inch 170x320 Resolution TFT LCD Display with SPI RGB Interface and IPS Full Viewing Angle

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

- Outline Dimension: 25.8 X 49.72 X 1.43 Mm
- Display Type: TFT LCD
- Viewing Direction: IPS Full Viewing Angle(80/80/80/80)
- Resolution: 170 X 320
- Backlight Type: LED
- Pin Number: 30 PIN
- Connector: FPC Connector Type
- Display Size: 1.9inches



for more products please visit us on lcdtftscreen.com

Product Description

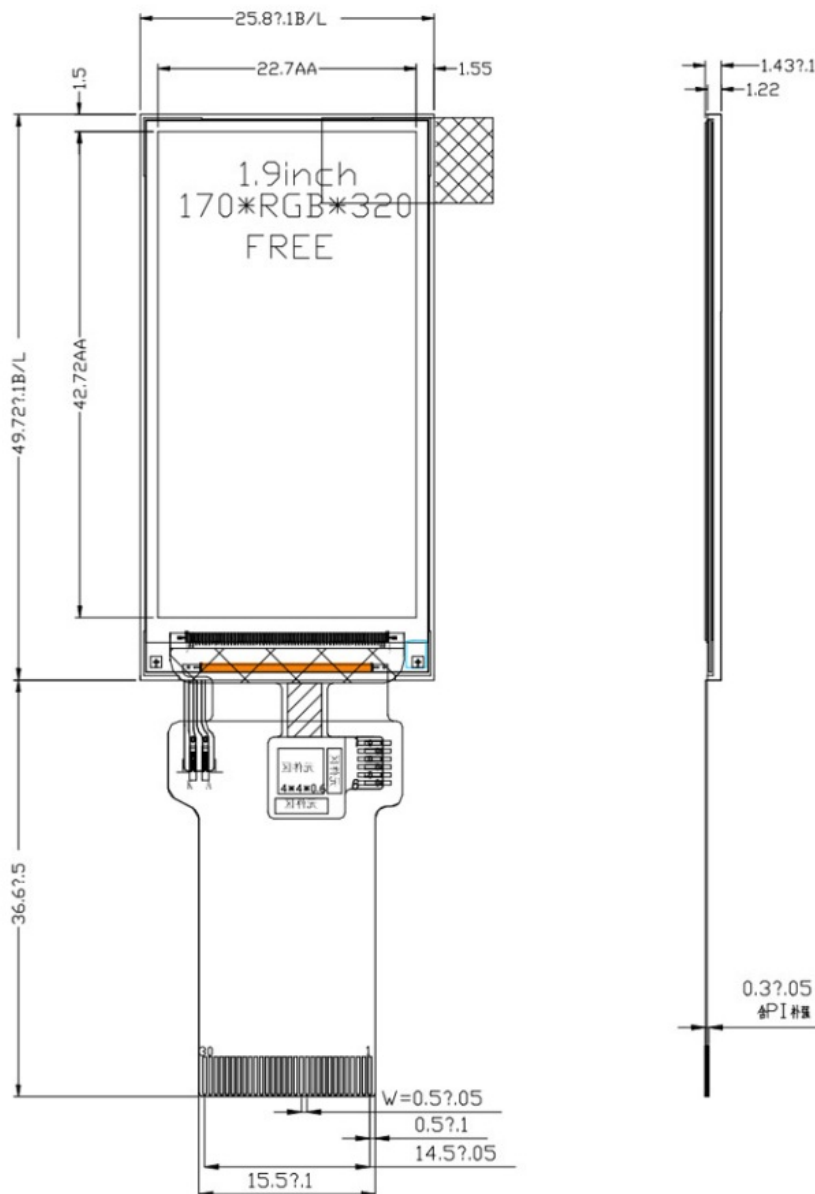
1.9 Inch 170x320 With ST7789V SPI RGB Interface Touch TFT Display

1.9 Inch 170x320 With ST7789V SPI RGB Interface Touch TFT Display

Product Specifications

Product:	1.9"inch TFT	Touch Screen:	Capacitive Touch Panel (CTP)
Resolution:	170 X 320	Viewing Direction:	IPS Full Viewing Angle(80/80/80/80)
Interface:	SPI / RGB	Outline Dimension:	25.8 X 49.72 X 1.43 Mm
Active Area:	42.72 X 22.7 Mm	Driver IC:	ST7789V Or Equivalent
Pin Number:	30 Pins	Connection:	Plugging (can Be Customized)
Surface Luminance:	350 Cd/m2 (nits)	LED Lifetime:	40,000 Hours

Technical Drawing



Product Introduction

This 1.9-inch TFT touch display is a small, cost-effective color display module with the following core parameters:

Size: 1.9 inches (diagonal)
Resolution: 170 (RGB) × 320 pixels (vertical strip shape)
Driver IC: ST7789V (built-in memory, supports SPI/RGB interfaces)
Display type: IPS full-view (80° viewing angle up, down, left, and right)
Color: 262K colors (16-bit RGB565)
Interface: SPI (four-wire) + RGB dual interface
Touch: Capacitive touch screen (optional, such as CST816)
Brightness: Approximately 500~550 cd/m² (outdoor visibility)
Operating voltage: 3.3V (compatible with 5V logic level)

Main Features

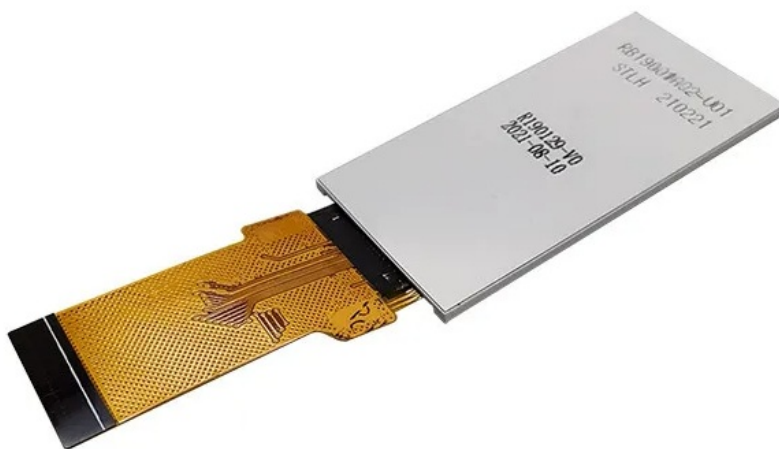
SPI Interface: Only 4 wires (SCLK, MOSI, CS, DC) are needed, saving MCU pins and compatible with Arduino, ESP32, STM32, etc.
High brightness + IPS: Outdoor visibility, full viewing angle, good color reproduction
Built-in GRAM: ST7789V comes with built-in memory, reducing the burden on the main controller
Low power consumption: Suitable for battery-powered devices (smart wearables, handheld instruments)
Touch option: Capacitive touch (I2C interface), supporting touch interaction

Typical Applications

Smart wearable devices: Smart watches, bracelets, health monitors
Handheld instruments: Oxygen meters, blood glucose meters, temperature guns, translation pens
IoT terminals: Smart home panels, sensor displays, environmental monitoring equipment
Industrial control: Small HMI, PLC human-machine interface, equipment status screens
Consumer electronics: Mini game consoles, desk ornaments, electronic photo frames
DIY / Education: Arduino/ESP32 projects, embedded development learning

Application Advantages

Small size, high resolution: 170×320 pixels displayed clearly on a 1.9-inch screen
Flexible interfaces: SPI (low speed) / RGB (high speed) dual selection
Friendly development: Mature driver libraries for Arduino/ESP32/Raspberry Pi (Adafruit, LVGL)
Low cost: Suitable for mass production and batch applications





Frequently Asked Questions

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. Can you send us samples for checking?

Yes. Samples order is available.

7. 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.



Dongguan Bibuke Electronic Technology Co., Ltd.



+8613711912723



Jack@smartwinlcd.cn



lcdftscreen.com

Shangyu Commercial Centre Chang'an, Dongguan, Guangdong, China 523881