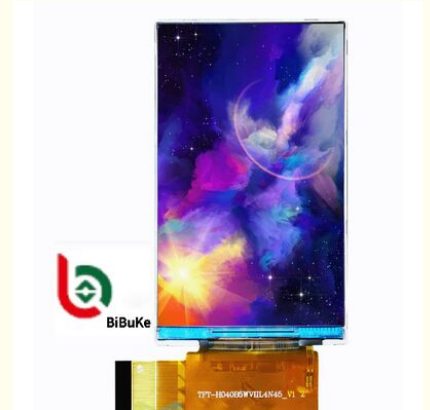


3.97 Inch 480x800 Resolution IPS TFT LCD Screen with SPI RGB 24 Bits Interface

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

- Viewing Angle: IPS All Viewing Angles
- Light Source: White LED
- Screen Type: TFT
- Display Type: TFT LCD
- Pins Number: 51 Pins
- Resolution: 480*800 Pixels
- Interface Types: SPI + RGB 24 Bits (customizable)
- Display Size: 3.97 Inches
- Highlight: 3.97 inch IPS TFT LCD screen , 480x800 resolution TFT display, SPI RGB 24 bits interface LCD



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Product Description

3.97 Inch 480x800 SPI RGB 24 Bits Interface IPS TFT LCD Screen

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Product Specifications

Product:	3.97 Inch (4") TFT Screen	Resolution:	480x800 Dots
Driver IC:	NT35510 Or Equivalent	Outline Dim.:	57.14x96.85x2.2 Mm
Touch Screen:	Without Touch Screen (Optional)	Cover Glass Dimension:	Customizable
Viewing Direction:	IPS All Viewing Angles	Interface:	SPI + RGB 24 Bits (customizable)
Connection:	Plugging (customizable)	Pin Number:	51 Pins (customizable)
Surface Luminance:	400 Cd/m ² (nits)	Backlight Type:	White LED

Product Introduction

This is a 3.97-inch (commonly known as 4-inch) IPS-TFT color liquid crystal display screen. The core specifications are 480×800 pixels (WVGA). It adopts the SPI + RGB 24-bit dual interface design, and is a mid-to-high-end small-sized module that balances display effect and connection flexibility.

Panel Technology: Utilizes IPS (In-Plane Switching) wide viewing angle technology, combined with TFT active matrix driving. The viewing angles from top to bottom and left to right can reach over 80°, with small color deviation and excellent picture consistency.

Resolution and Color: 480x800 pixels, RGB 24-bit true color, capable of displaying 16.7 million colors. The color reproduction is accurate, the picture is fine, and the pixel density is approximately 235 PPI.

Interface Characteristics: Supports SPI serial interface (simple control, fewer wiring) and RGB 24-bit parallel interface (high-speed transmission, suitable for dynamic pictures), and the driving IC commonly used includes NT35510, ST7701S, etc.

Physical Parameters:

Dimensions: 57.14 × 96.85 × ~2.2 mm

Effective Display Area: 51.84 × 86.40 mm

Brightness: Typical 300-400 cd/m² (customizable for high-brightness models)

Operating Voltage: 2.6-3.3V (compatible with 3.3V microcontrollers / embedded systems)

Temperature Range: Industrial grade -20 ~ +70 (some models support -30 ~ +80)

Optional Configurations: Can integrate capacitive touch screen (PCAP), supporting multi-touch, suitable for interactive devices.

Main Applications

Industrial Control and Handheld Devices - Display interfaces for industrial PDAs, data collectors, portable testers, multimeters, oscilloscopes, etc. Parameter and status display for small PLCs, frequency converters, servo drives. Outdoor / Field Operation Terminals, relying on IPS wide viewing angle and wide temperature stability.

Smart Home and Internet of Things (IoT) - Smart control panels, temperature controllers, fresh air / air conditioner controllers, security monitoring displays. Interactive interfaces for smart locks, access control systems, environmental monitors.

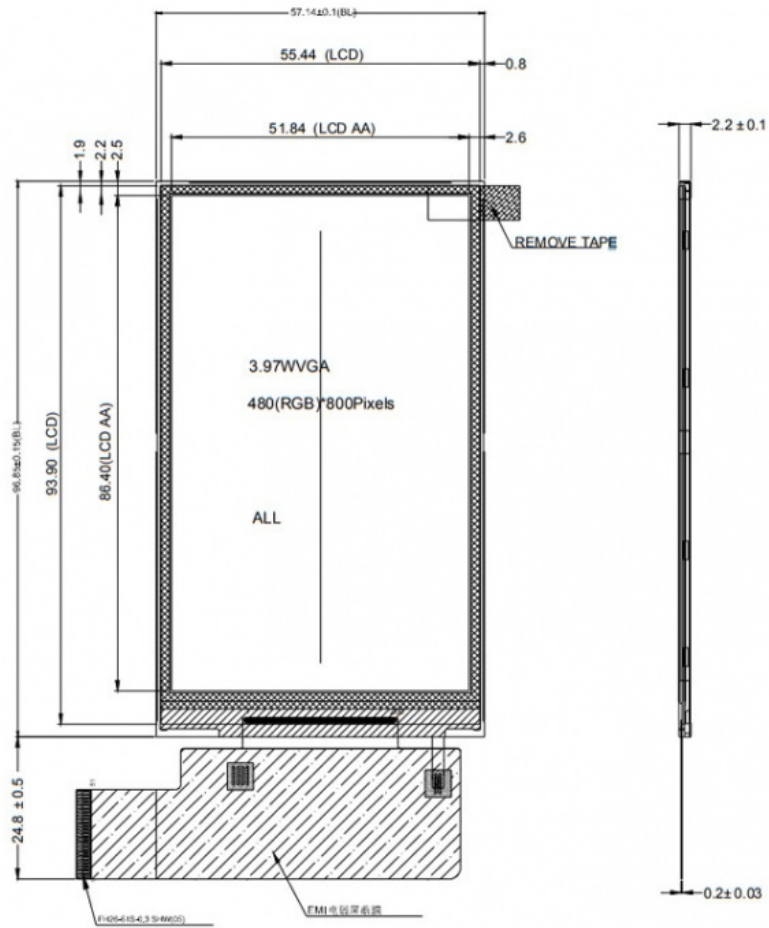
Medical and Health Equipment - Portable monitors, blood glucose meters, blood pressure monitors, infusion pumps, home physiotherapy equipment. Small diagnostic instruments, requiring accurate colors, wide viewing angles, and low power consumption.

Consumer Electronics and Creative Development - Handheld game consoles, retro console modifications, digital photo frames, smart speakers. Projects for makers such as Raspberry Pi / Arduino: Mini displays, sensor data visualization, small-sized interactive screens.

Vehicle and Commercial Equipment - Portable navigation, vehicle recorders, rear entertainment screens. Cash register POS, queue callers, elevator floor displays, small advertising machines.

Communication and Security - Three-proof walkie-talkies, law enforcement recorders, sports cameras, local preview screens for security cameras.

Technical Drawing



Pin Description

NO.	PIN NAME	I/O	Description
1	LEDK	O	LED Cathode
2	LEDA	O	LED Anode
3	YU	I	Touch Panel input signal
4	XL	I	Touch Panel input signal
5	YD	I	Touch Panel input signal
6	XR	I	Touch Panel input signal
7	GND	I	Ground
8	VCI	I	Power Supply 2.8V Voltage
9	NC	-	Set Open
10	IOVCC	I	Power Supply 1.8V Voltage
11	TE	I	Tearing effect output
12	SDO	-	SPI Interface Input/output Pin
13	SDI	I	SPI Interface Input/output Pin
14	WR/SCL	-	SPI Clock Signal
15	CSX	I	Input pin for chip selection signal
16	RESX	I	LCM Reset input signal
17-40	DB23-DB0	I/O	Display Data I/O
41	ENABLE	I	Data enable signal in RGB I/F mode 1.
42	DOTCLK	I	Clock Signal to Sample each date
43	HSYNC	I	Horizontal Synchronizing Signal

44	VSYNC	I	Vertical Synchronizing Signal
45	LEDPWM	I	This pin is connect to the external LED driver.
46	LWDON	I	Used for turning On/Off external LED backlight control.
47	RS	I	Register select signal
48	RD	I	Read strobe signal input pin
49	IM0	I	Select the interface mode
50	IM1	I	Select the interface mode
51	GND	I	Ground





Our Services

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 products.

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 based on the specification, or you can offer your own specification or drawing. We can customize all kinds of LCD displays for you.

Frequently Asked Questions

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

Answer: 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.

Answer: 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?

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

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

Answer: 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?

Answer: 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?

Answer: Yes. Samples order is available.

7. What is the Leading Time?

Answer: 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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