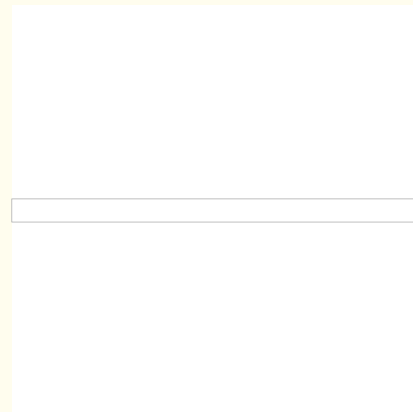


3.5 Inch 320x480 HVGA TFT LCD Display with PCAP Touch Screen and MCU Interface

Our Product Introduction

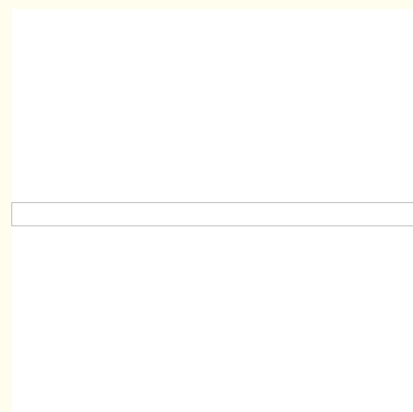
Basic Information

- 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

- Transmissive Mode: Normally Black
- Touch Screen: Capacitive Touch Screen
- Size: 3.5 Inches
- Aa Size: 48.96×73.44mm
- Interface: 3SPI+RGB16 Bit
- Product Type: TFT LCD Screen
- Connection: FPC Plugging Type (customizable)
- Cover Glass Dimension: Customizable
- Highlight: **3.5 inch TFT LCD display , HVGA touch screen display, MCU interface LCD screen**



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Product Description

3.5" 320x480 LCD TFT Display with PCAP Touch, HVGA MCU Interface

Product Overview

Product:	3.5 Inch TFT Touch LCD	Touch Screen:	Projected Capacitive Touch Screen
Resolution:	320x480 HVGA	Cover Glass Dimension:	Customizable
Viewing Direction:	12 O'clock	Interface:	3SPI+RGB16 Bit
Pin Number:	45 PINS	Connection:	FPC Plugging Type (customizable)
Surface Luminance:	300cd/m ² (nits)	LED Lifetime:	40,000 Hours
Operating Temp.:	-20 To +70	Compliance:	REACH & RoHS Compliant

Product Introduction

This 3.5-inch HVGA (320×480) TFT LCD capacitive touch screen is specially designed for embedded systems. It adopts the MCU parallel interface and integrates PCAP (projected capacitance) touch technology, achieving high compatibility, clear picture quality, and sensitive interaction.

Display Core Specifications

Size and Resolution: 3.5 inches, 320×480 (HVGA), vertical display ratio, suitable for handheld and panel scenarios

Panel Type: IPS wide viewing angle with viewing angles up to 170° in all directions, accurate color reproduction, high contrast (typical 800:1)

Color and Brightness: 16.7M colors (24-bit) or 262K colors (16-bit), brightness 300-350 cd/m², good visibility both indoors and outdoors

Driver IC: Commonly ILI9488, ST7796, etc., supports parallel and SPI dual modes for MCU

Interface Design (MCU Interface)

Core Interface: 8/16-bit 8080 parallel (MCU direct connection), simple pins, easy timing control, suitable for mainstream embedded controllers such as STM32, ESP32, 51 microcontrollers

Auxiliary Interface: Some modules are compatible with 3/4-wire SPI, suitable for low-speed configuration or simplified wiring

Touch Interface: Capacitive touch (PCAP) via I²C communication, driver ICs are GT911/GT1151, supporting 5-point touch

Touch Characteristics (PCAP)

Type: Projected capacitive (G+G structure), supports finger/pen operation, anti-fingerprint, high sensitivity, high precision

Response: Touch response time < 10ms, supports gestures (sliding, zooming), suitable for high-frequency interaction scenarios

Structure and Environmental Specifications

Size: Effective display area 48.96×73.44mm, module thickness approximately 3.3mm, compact and lightweight

Operating Temperature: -20°C to +70°C, industrial-grade stability, suitable for harsh environments

Power Consumption: 3.3V single power supply, adjustable backlight, low power consumption mode suitable for battery-powered devices

Main Applications

Industrial Control: PLC human-machine interface, equipment control panel, data collector, suitable for complex environments such as factories and workshops

Smart Handheld Devices: Portable detectors, medical monitors, IoT terminals, balancing image quality and low power consumption, suitable for battery-powered scenarios

Smart Home: Central control panel, smart switches, visible doorbell, providing clear interaction interface, suitable for long-term indoor operation

Automotive and Security: Rearview cameras, driving recorders, access terminals, wide viewing angle suitable for multi-angle viewing, shock-resistant, stable

Embedded Development: STM32/Arduino/ESP32 prototype development, DIY projects, MCU interface plug-and-play, rich development materials, easy to get started

Consumer Electronics: Small game consoles, educational toys, smart speakers display module, moderate cost, balanced performance

Product Drawings

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Our Service

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 number on the displays

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

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

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. Can you provide this?

No problem. Firstly, please kindly send us your specification/drawing paper. If you don't have 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 to modify the outline size or display content, a new LCD glass module is needed. 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 your request.

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

Yes, we can. Please send your drawing paper. If you don't have one, please advise us 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 the lead time for tooling?

Generally 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 Lead Time?

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



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