



## 3.5 Inch TFT LCD Display Module with 320x480 HVGA Resolution IPS Full Viewing Angle and RGB/MCU/SPI Interface

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

- Interface: RGB/MCU/SPI
- Touch Screen: Without Touch Screen ( Customizable )
- Display Technology: TFT LCD
- Lcd Type: TFT
- Surface Luminance: 300 Cd/m2(nits)
- Backlight Technology: LED
- Viewing Direction: All Viewing Angle(80/80/80/80)
- Panel Type: TFT
- Highlight: **320x480 HVGA Resolution TFT LCD Display Module**  
**, IPS Full Viewing Angle TFT LCD Screen ,**  
**RGB/MCU/SPI Interface LCD Display Module**



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## Product Description

### 3.5" Inch TFT LCD Display Module 320x480 HVGA IPS Full Viewing Angle

High-performance 3.5-inch TFT LCD display module featuring 320x480 HVGA resolution with IPS technology for full viewing angles. Supports RGB, MCU, and SPI interfaces for versatile applications.

#### Product Specifications

Product	3.5" Inch TFT LCD Display Module
Touch Screen	Resistive Touch Panel (Optional)
Resolution	320x480
Cover Glass Dimension	Customizable
Viewing Direction	All Viewing Angle (80/80/80/80)
Interface	RGB/MCU/SPI
Pin Number	45 Pins
Connection	FPC Plugging
Surface Luminance	300 Cd/m <sup>2</sup> (nits)
LED Lifetime	40,000 Hours

#### Product Features

**Outstanding Display Performance:** 320x480 HVGA resolution with IPS full-view technology delivers 85°/85°/85°/85° viewing angles with true colors and clear images from any perspective

**High-Quality Imaging:** Utilizes advanced driver ICs (ILI9488 or ST7796S) supporting 65K colors with 700:1 contrast ratio and up to 650 nits brightness

**Flexible Interface Options:** Integrated RGB, MCU, and SPI interfaces for diverse control and transmission requirements

**Compact Design:** Dimensions 53-57mm × 82-85mm with 3-6mm thickness for easy integration into compact devices

**Customization Support:** Options for resistive/capacitive touch screens, brightness adjustment, interface modification, and shape customization

**Environmental Compliance:** ROHS and REACH certified with operating temperature range of -20 to 70

#### Application Areas

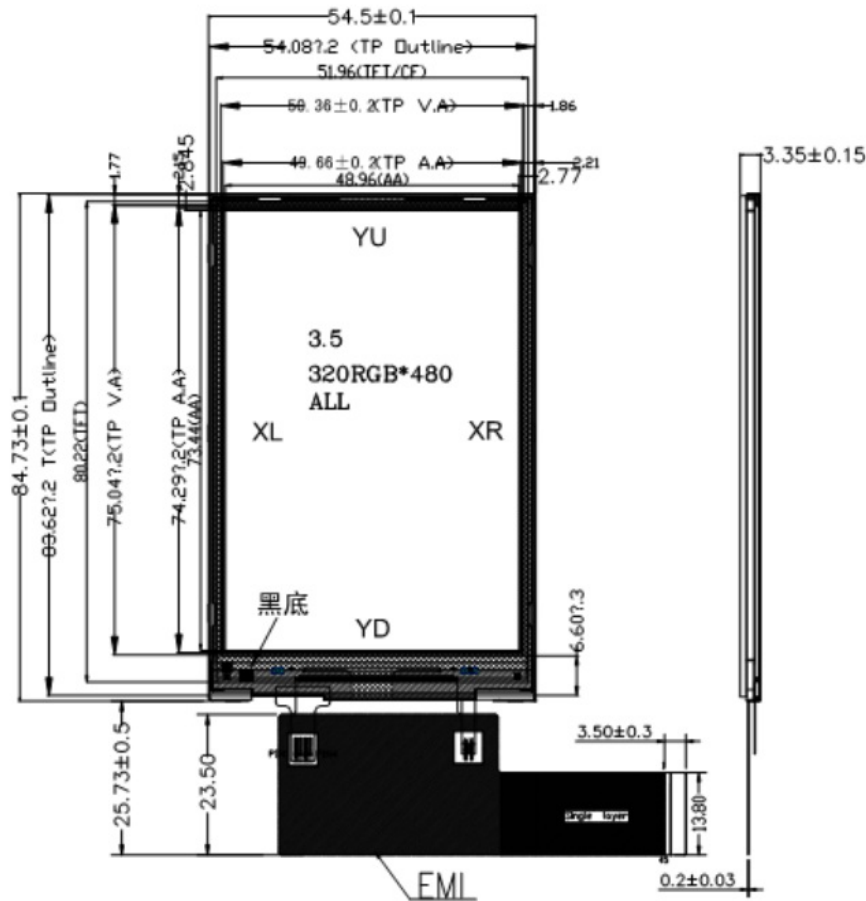
**Industrial Control:** Operation screens for automated production lines, industrial control panels, elevator controls, and detection instruments

**Medical Equipment:** Portable diagnostic instruments, life sign monitoring devices, and medical displays

**Consumer Electronics:** Handheld game consoles, portable detectors, POS machines, and Arduino projects

**Smart Transportation & Home:** Electric bicycle instrument panels, in-vehicle navigation, and smart home appliance controls

#### Product Drawings



NO.	PIN NAME	I/O	Description
1	GND	I	Ground
2	LEDA	O	LED Anode
3	LEDK	O	LED Cathode
4	GND	I	Ground
5	VCC	I	Power Supply 2.8V Voltage
6	VCC	I	Power Supply 2.8V Voltage
7	GND	I	Ground
8	RESET	I	LCM Reset input signal
9	VSYNC	I	Frame Vertical Synchronizing Signal
10	HSYNC	I	Line Horizontal Synchronizing Signal
11	DOTCLK	I	Dot Clock Signal for RGB Interface Operation
12	ENABLE	I	Data Enable Signal for RGB Interface Operation
13	GND	I	Ground
14	IM0	I	Select Interface mode signal.
15	IM2	I	Select Interface mode signal.
16-31	DB15-DB0	I/O	Display Data I/O
32	GND	I	Ground
33	SDA	I	Serial input signal
34	WRX-SCL	I	Read strobe signal input pin
35	CSX	I	Input pin for chip selection signal
36	GND	I	Ground
37	XR	O	Touch Panel Pin
38	YD	O	Touch Panel Pin
39	XL	O	Touch Panel Pin
40	YU	O	Touch Panel Pin
41	DCX	I	Register selection signal
42	IM1	I	Select Interface mode signal.
43	RDX	I	Read signal
44	GND	I	Ground
45	TE	I	Serve as a TE (Tearing Effect) output signal



**I want the LCD display 8 digits and the outline size is 65x30x2.8mm. Is this possible?**

Yes, we can accommodate custom specifications. Please provide your detailed specifications or drawing. If you don't have specifications, we can recommend suitable standard products or create custom solutions based on your requirements.

**This LCD is what we want, but the size is too big. Do you have smaller sizes? Also, we need to modify the display content slightly.**

For segment type LCD modules requiring size or content modifications, we can create new tooling to produce custom glass modules according to your specifications.

**This LCD display is HTN type, but I want STN type. Can you make this change?**

Absolutely. We can modify the display type to STN according to your specific requirements.

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

Yes, we specialize in custom LCD modules. Please provide your drawing or specify the outline size, display information, glass thickness, polarizer type, display type, connector mode, temperature specifications, supply voltage, viewing direction, and drive conditions.

**What is the lead time for tooling?**

Typically, tooling requires 15-25 days after drawing confirmation and tooling charge payment. We will provide exact timelines upon drawing approval.

**Can you send us samples for evaluation?**

Yes, sample orders are available for product testing and validation.

**What is the lead time for production?**

For standard products in stock, lead time is one day after payment. For mass production of custom items, lead time is typically 15-30 days. We will notify you promptly if we can complete orders ahead of schedule.



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