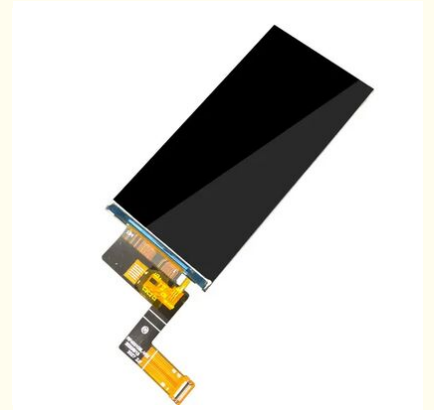


4 Inch 540x1080 Pixels 30 Pin IPS TFT LCD Display with 350 Cd/m2 Brightness

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

- Surface Luminance: 350 Cd/m2
- Refresh Rate: 60 Hz
- Pins Number: 30Pins
- Display Type: TFT LCD
- Resolution: 540x1080 Pixels
- Backlight Type: LED
- Screen Size: 4inches
- Interface: MIPI (Customizable)
- Highlight: **540x1080 Pixels TFT LCD Display ,
30 Pin IPS TFT LCD Screen ,
350 Cd/m2 LCD Display Module**



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Product Description

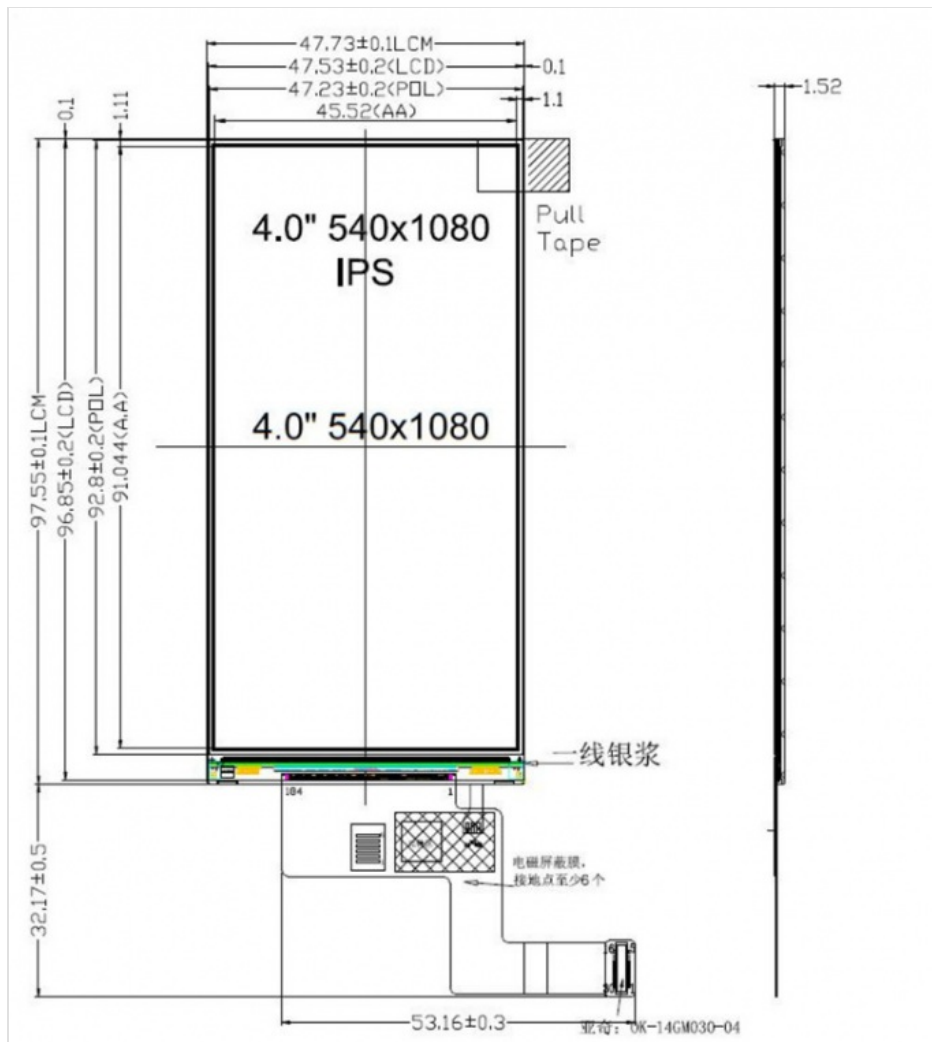
4 Inch 540x1080 High PPI 30 Pin IPS TFT LCD Display

This 4-inch IPS TFT LCD display features high resolution (540x1080 pixels), excellent pixel density, and full viewing angles, making it ideal for mid-to-high-end embedded systems and consumer electronics applications.

Product Specifications

Product	4" Inch IPS TFT LCD
Resolution	540x1080 Pixels
Viewing Direction	IPS All Viewing Angles
Touch Screen	Without, Resistive And PCAP Optional
Cover Lens	Can Be Customized
Surface Luminance	350 Cd/m ² (Customizable)
Interface	MIPI (Customizable)
Pin Number	30 Pins
Connection	Connector Type (Customizable)
Driver IC	ST7703
Operating Temperature	-20 To +70
Compliance	REACH & RoHS Compliant

Product Drawing



Interface Pin Definition

NO	SYMBOL	FUNCTION
1	RST_LCM	This signal will reset the device and it must be applied to properly initialize the chip. Signal is active low.
2	TE_LCM	Tearing effect signal is used to synchronize MCU to frame memory writing.
3	GND	Power Ground
4	TDP0	MIPI Data Lane
5	TDN0	MIPI Data Lane
6	GND	Power Ground
7	TDP1	MIPI Data Lane
8	TDN1	MIPI Data Lane
9	GND	Power Ground
10	TDP2	MIPI Data Lane
11	TDN2	MIPI Data Lane
12	GND	Power Ground
13	TDP3	MIPI Data Lane
14	TDN3	MIPI Data Lane
15	GND	Power Ground
16	TCP	MIPI Clk
17	TCN	MIPI Clk

NO	SYMBOL	FUNCTION
18	GND	Power Ground
19	IOVCC1.8V	Power Supply for I/O system. IOVCC= 1.65V~3.3V.
20	LEDA	LED Anode
21	LEDK	LED Cathode
22	ID1	ID
23	NC	NC
24	VDD2V8	Power Supply for Analog, VDD=2.5V~3.3V.
25	NC	NC
26	SDA_CTP	I ² C data signal of Touch Panel If no used ,let this pin open.
27	SCL_CTP	I ² C clock signal of Touch Panel If no used ,let this pin open.
28	EINT_CTP	Interrupt signal to main processor of Touch Panel If no used ,let this pin open.
29	RST_CTP	System reset of Touch Panel If no used ,let this pin open.
30	VDD2.8_CTP	Power Supply for Analog, VDD=2.4V~3.3V.

Product Core Features

This 4-inch, 540×1080 resolution, high PPI, 30-pin IPS TFT LCD display module delivers high definition, full viewing angle capability, and high integration, making it the ideal color screen solution for mid-to-high-end embedded systems and consumer electronics.

Key Parameters and Characteristics

Size and Resolution: 4-inch diagonal, 540 (RGB) × 1080 pixels, approximately 18:9 aspect ratio similar to full-screen mobile phones

Pixel Density (PPI): Approximately 300 PPI for sharp text and images without visible graininess

Panel Type: IPS TFT (planar conversion) with full viewing angles (up, down, left, right ≥ 80°)

Interface: 30-pin with MIPI DSI interface (compatible RGB versions available)

Backlight and Brightness: LED backlight with typical brightness of 350-550 cd/m² (customizable to 1000 nits)

Power Supply: Operating voltage 2.4-3.3V (typical 2.8V) with ST7701S/ILI series driver IC

Temperature Range: Operating -20 to +70 , storage -30 to +80

Structure: Module thickness approximately 4-5mm with 30-pin FPC flexible ribbon cable

Typical Applications

Consumer Electronics and Smart Terminals

- Smartphones and feature phones secondary displays
- Smartwatches and fitness bands with large screen versions
- Smart speakers and voice assistants central control interfaces
- Portable media players (MP4/MP5)
- Educational devices and children's tablets

Industrial and Embedded Devices

- Industrial HMI and handheld terminals
- IoT gateways and smart home central control
- Vehicle-mounted aftermarket systems and dashcams
- Security monitoring and video doorbells

Medical and Professional Equipment

- Handheld medical detectors and portable monitors
- Beauty equipment and dental equipment interfaces

Other Applications

POS machines and cash registers
Smart locks and access control systems
Drone remote controllers and FPV glasses

Frequently Asked Questions

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, you can send samples and we'll recommend suitable products or create custom solutions based on your requirements.

This LCD is what we want, but the size is too large. Do you have smaller sizes? Can the display content be modified?

For segment type LCD modules requiring size modifications or display content changes, we can create new LCD glass modules with custom tooling to meet your specific requirements.

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

Yes, we can modify the display type according to your specifications and requirements.

Can you customize a new LCD module for my application?

Absolutely. Please provide your drawing specifications. If you don't have drawings, please specify the outline size, display information (glass thickness, polarizer, display type, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions).

What is the lead time for custom tooling?

Typically, custom tooling requires 15-25 days after drawing confirmation and tooling charge payment. We will provide exact timelines once your drawing specifications are confirmed.

Can you provide samples for evaluation?

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

What is your standard lead time for production?

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



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