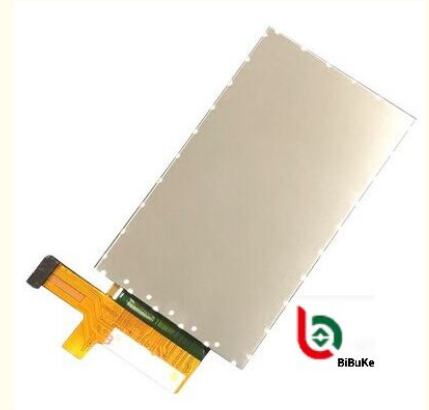


## 3.1-inch 480×800 HD All Viewing Angle IPS TFT LCD Display Module with MIPI Interface

### Basic Information



### Product Specification

- Touchscreen: Customized
- Storage Temperature: -20°C To 70°C
- Display Type: TFT LCD
- Backlighttype: LED
- Viewing Angle: 80° All Directions (CR ≥ 10)
- Outline Dimension: 43.48 × 74.72 × 1.6mm
- Size: 3.1 Inches
- Interface Types: 2-lane MIPI



## 3.1-inch 480×800 HD, MIPI Interface, All Viewing Angle IPS TFT LCD Display Module

### Product Overview

This 3.1-inch IPS TFT liquid display module is a high-performance display component specifically designed for high-definition small-screen interaction. It integrates the LCD panel, driving circuit, and backlight unit.

|                   |                                 |
|-------------------|---------------------------------|
| Product           | 3.1 Inch IPS TFT LCD            |
| Resolution        | 480 RGB × 800 Pixels            |
| Interface         | 2-lane MIPI                     |
| Driver IC         | ST7701S                         |
| Brightness        | 350 Cd/m <sup>2</sup> (typical) |
| Viewing Direction | 80° All Directions (CR ≥ 10)    |
| Operating Temp    | -20°C To +70°C                  |
| Touch Support     | I <sup>2</sup> C Interface      |
| Dimensions        | 43.48 × 74.72 × 1.6mm           |
| Compliance        | REACH & RoHS Compliant          |

### Key Features

**Size and Resolution:** Diagonal 3.1 inches, resolution 480×800 pixels (RGB pixel arrangement), pixel density approximately 298 PPI, capable of clearly presenting fine text, icons, and high-definition images, with display colors up to 262K.

**Panel Technology:** Uses IPS (In-Plane Switching) hard panel technology, featuring full viewing angle (up to 80° on all sides), no color shift or dimming when viewed from an inclined angle, and excellent color and brightness consistency.

**Interface and Driver:** Standard 2-channel MIPI interface, high-speed and stable data transmission, compatible with mainstream main control platforms; the driver chip commonly used is ST7701S, precise control and strong compatibility.

**Brightness and Power Consumption:** Typical brightness 350 nits, clear visibility in indoor, weak light, and outdoor environments; operating voltage 2.4V-3.3V (typical 2.8V), low power consumption design, suitable for battery-powered devices.

**Structure and Characteristics:** The module is thin and lightweight (thickness approximately 2.0mm), uses FPC flexible ribbon cable connection, can be customized with capacitive/resistive touch screens, wide temperature compatibility, and strong stability.

### Main Applications

**Smart handheld terminals:** Used in handheld barcode scanners, portable data collectors, smart POS machines, industrial PDAs, etc., it clearly displays the operation interface, data list and barcode information. The MIPI interface ensures smooth touch and display response.

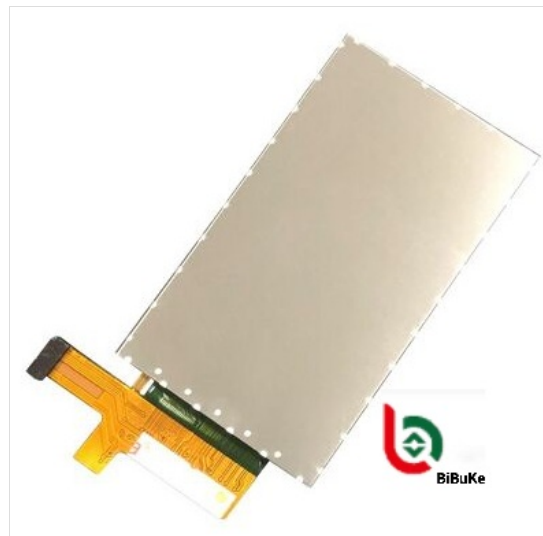
**Industrial control and instruments:** Suitable for industrial sensors, PLC human-machine interfaces, power monitoring instruments, process control equipment, etc. It can display real-time parameters such as temperature, pressure, and flow rate. The IPS full viewing angle is convenient for viewing from multiple angles in the workshop, with strong anti-interference and stability.

**Medical health equipment:** Applied to portable blood glucose meters, electrocardiogram monitors, home blood oxygen monitors, small diagnostic devices, etc. It clearly presents measurement data and waveforms, with an intuitive interface, and low power consumption meets the requirements for long standby time.

**Vehicle-mounted and travel equipment:** Used as vehicle auxiliary display screens, driving recorders, GPS navigation secondary screens, motorcycle instruments, etc. The 350 nits brightness can cope with changes in interior lighting, and the full viewing angle enhances safety for passengers and drivers to view.

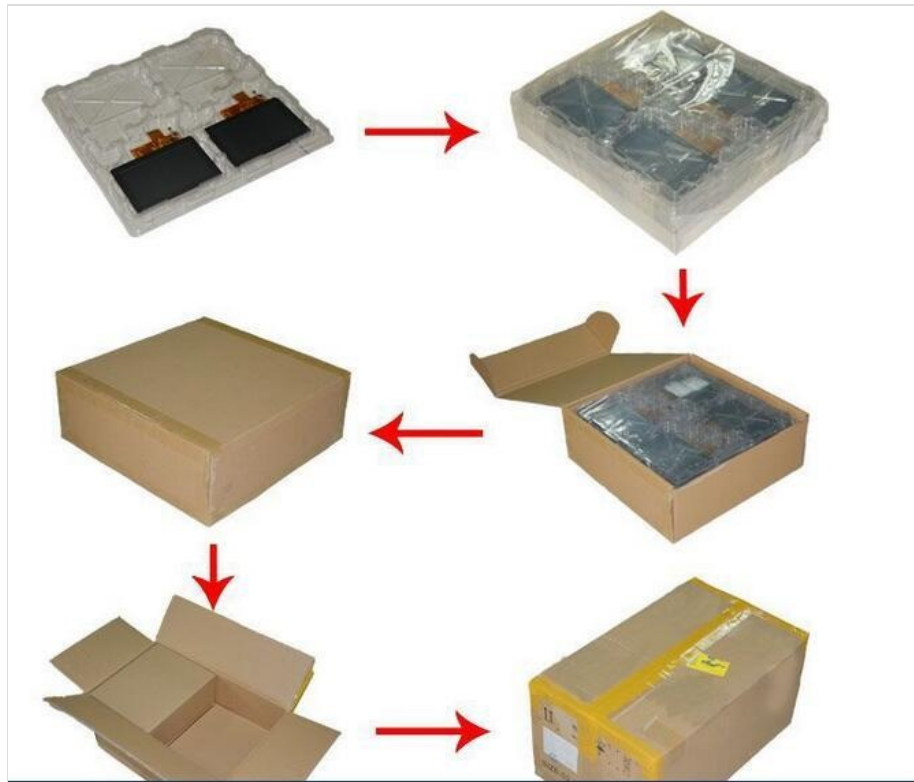
**Smart home and consumer electronics:** Embedded in smart door locks, video intercoms, home control terminals, smart remote controls, small speaker displays, etc., it shows status, time and interaction menus, enhancing the interaction experience of home devices.

**Internet of Things and security equipment:** Suitable for portable security testing instruments, access card readers, small monitoring camera configuration screens, IoT collection terminals, meeting both stable outdoor and indoor display requirements and quick configuration needs.



### Packaging & Shipping

**Packaging:** Carton boxes, Cupboard, EPE, Blister Tray. About the package way, it is up to the size of products, according to customer request and demand. Different countries have not same requirement.



**Shipping:** Express way as DHL, Fedex, EMS, UPS, air shipping, sea shipping. Any shipping method you prefer.

|   |  |   |   |  |   |   |
|---|--|---|---|--|---|---|
|  |   |  |  |  |  |  |
|   | 2-7days  | 2-8days   | 2-7days   | 3-15days   | 2-5days   | 2-7days   |
| <b>Notice</b>   | <ol style="list-style-type: none"> <li>EMS for Brazil, Russia and Remote areas .</li> <li>SF for Hong Kong, Taiwan, South Korea, Japan, Thailand, Singapore and Malaysia .</li> <li>Having logo product can't be sent by FEDEX .</li> <li>The Brazil want to use FEDEX/DHL , need to offer CNPJ / CPF to us !</li> </ol> |   |   |  |   |   |

#### Payment Method



#### Frequently Asked Questions

**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.

**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.

**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.

**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.

**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.

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

Yes. Samples order is available.

**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.



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