

3-inch 360x640 RGB IPS Panel with Wide Temperature TFT LCD Display Module

Our Product Introduction

Basic Information



Product Specification

- Display Technology: TFT LCD
- Operating temperature: -20°C To 70°C
- Pins Number: 40PINS
- Surface Luminance: 300 Cd/m² (Customizable)
- Contrast ratio: 1000:1
- Product Type: TFT LCD Screen
- Screen Size: 3 Inches
- Display Type: TFT LCD



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Product Description

3-inch 360x640 RGB IPS Panel, ST7701S Driver, Wide Temperature TFT LCD Display Module

3-inch 360x640 RGB IPS Panel, ST7701S Driver, Wide Temperature TFT LCD Display Module

Product Specifications

Product:	3-inch TFT LCD	Resolution:	360x640 Pixels
Viewing Direction:	All (80°/80°/80°/80°)	Surface Luminance:	300 Cd/m ² (customizable)
Interface:	RGB 16-bit	Operating Voltage:	2.8V (2.6V-3.3V Range)
Pin Number:	40 Pins	Driver IC:	ST7701S
Operating Temp.:	-20 To +70	Contrast Ratio:	1000:1 (Typ.)
Touch Panel Option:	Customizable (RTP/CTP Available)	Compliance:	REACH & RoHS Compliant

Product Introduction

This 3-inch TFT liquid crystal display module is a high-performance, small-sized color display component, specially designed for devices that have high requirements for display quality, stability and environmental adaptability.

Core Specifications

Size: 3 inches (diagonal), effective display area approximately 36.72×65.28mm, module shape approximately 42.64×74.5×2.35mm, ultra-thin and lightweight structure.

Resolution: 360×640 (RGB), clear pixel arrangement, detailed picture, suitable for displaying text, icons and dynamic images.

Panel Technology: IPS wide viewing angle, viewing angles of up to 170° from all directions, no obvious color deviation or brightness reduction when viewed from any angle.

Driver Chip: ST7701S (Silicon Creative Electronics), highly integrated controller, supports RGB/MIPI dual interfaces, built-in DC-DC, gamma correction, memory control, low power consumption, high stability.

Color: 16.7M true color (24-bit), accurate and vivid color reproduction.

Brightness: Typical 300cd/m², clear display both indoors and outdoors.

Wide Temperature Characteristics: Industrial-grade wide temperature design, working temperature -30 ~+85 , stable operation in extreme environments.

Interface: Standard RGB interface (16/18/24 bits) or MIPI DSI interface, compatible with mainstream embedded controllers such as STM32, RK, etc.

Structure: FPC flexible ribbon cable connection, resistant to vibration, easy to assemble, customizable touch layer, backlight brightness, FPC length.

Main Applications

Thanks to its small size, high resolution, full viewing angle, wide temperature range, and low power consumption, it is widely used in:

Industrial handheld devices: industrial PDAs, measuring instruments, detectors, sensor displays, industrial HMI secondary screens, stable data / interface display.

Medical portable devices: handheld detectors, small monitors, medical sensor terminals, clear, reliable, low interference.

Smart wearables and IoT: smart watches, bracelets, TWS charging cases screens, smart home controllers, IoT gateways display.

Vehicle and vehicle electronic: vehicle small instruments, air conditioning control panels, dashcam, rearview mirror secondary screens.

Consumer electronics: early education machines, digital cameras, voice recorders, POS machines, endoscopes, portable players.

Outdoor and special equipment: outdoor instruments, security handheld terminals, drone remote controllers, small display terminals in wide temperature environments.



Frequently Asked Questions

1. 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.

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 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?

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

4. 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.

5. 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.

6. Can you send us samples for checking?

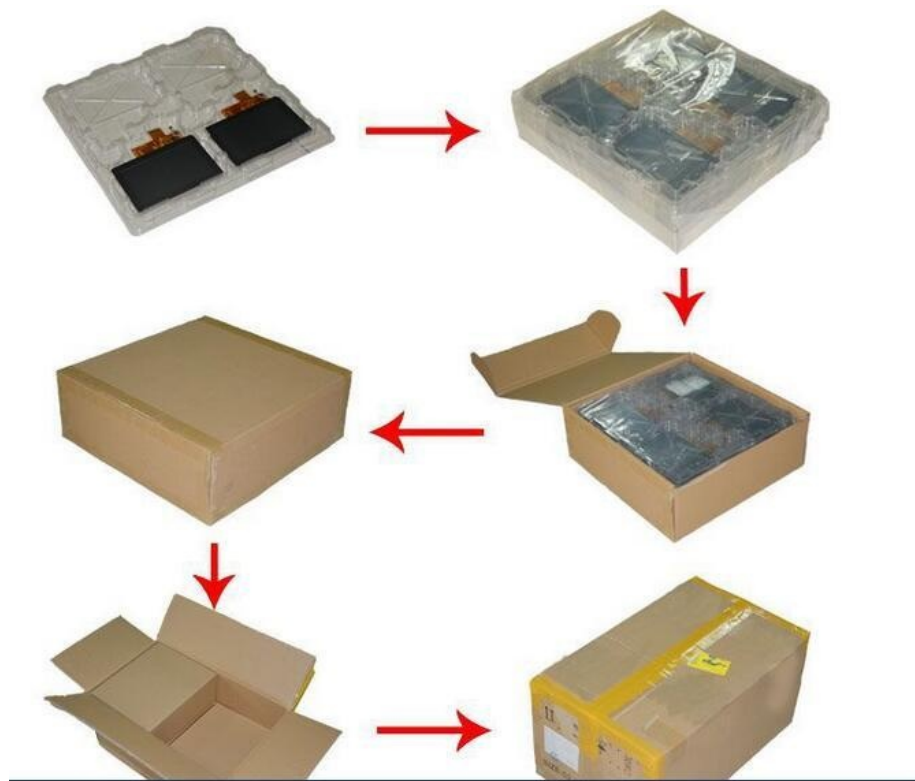
Yes. Samples order is available.

7. 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.

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
Notice	<ol style="list-style-type: none">1. EMS for Brazil, Russia and Remote areas .2. SF for Hong Kong, Taiwan, South Korea, Japan, Thailand, Singapore and Malaysia .3. Having logo product can' t be sent by FEDEX .4. The Brazil want to use FEDEX/DHL , need to offer CNPJ / CPF to us !				

			
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