

2.1 Inch Round IPS TFT LCD Display with 480x480 Resolution ST7701S Controller and SPI RGB Interface

Our Product Introduction

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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

- Aa Size: 53.28 Mm Diameter
- Display Size: 2.1 Inches
- Display Type: TFT LCD
- Touch Screen: Without Touch Screen (Customizable)
- Interface: 3 Line SPI + 18 Bits RGB
- Screen Type: TFT
- Colors: 16.7 M
- Outline Size: 56.18 X 59.71 X 2.3 Mm
- Highlight: **2.1 inch round IPS TFT LCD ,
480x480 resolution TFT display ,
SPI RGB interface LCD screen**



More Images



Product Description

2.1" 480x480 With ST7701S Controller SPI RGB Interface Round IPS TFT LCD Display

Product Overview

Product:	2.1" Inch Circular IPS TFT LCD	Resolution:	480x480 Dots
Interface:	3 Line SPI + 18 Bits RGB	Touch Screen:	Can Be Customized
Viewing Direction:	IPS (80/80/80/80)	Driver IC:	ST7701S
Pin Number:	40 Pins	Module Size:	56.18 X 59.71 X 2.3 mm
Active Area:	53.28 mm Diameter	Connection:	Plugging (Can Be Customized)
Surface Luminance:	300 Cd/m ² (nits)	Operating Temp.:	-20 To +70

Core Parameters and Features

Size and resolution: Effective display diameter 53.28mm, resolution 480×480 pixels. The square pixel array perfectly fits the circular screen, with a clear and distortion-free picture.

Display technology: Uses IPS wide-angle technology, with a viewing angle approaching full-angle (up, down, left, right 85°). The colors and contrast remain undistorted at any viewing angle.

Driver and interface: Built-in ST7701S driver chip, integrating controller and driver functions. Supports 3-wire SPI and 18-bit RGB dual interfaces, capable of flexibly adapting to mainstream microcontrollers such as 51/AVR/STM32/Arduino.

Color and brightness: Can display 262K colors. Typical brightness 300~550 cd/m². Clearly visible indoors, and the high-brightness version can cope with outdoor strong light environments.

Electrical and environmental: Supply voltage 2.5V~3.3V, operating temperature -20 ~+70 . Wide temperature stability, meeting industrial-grade standards.

Structure: Module thickness approximately 2.2~2.3mm, ultra-thin design. Usually connected by 40Pin FPC, optional capacitive touch screen.

Main Applications

With its round design, high-definition picture quality and stable performance, it is widely used in the following fields:

Smart wearable devices: Smart watches, bracelets, used as high-definition circular display panels to show time, health data and notifications.

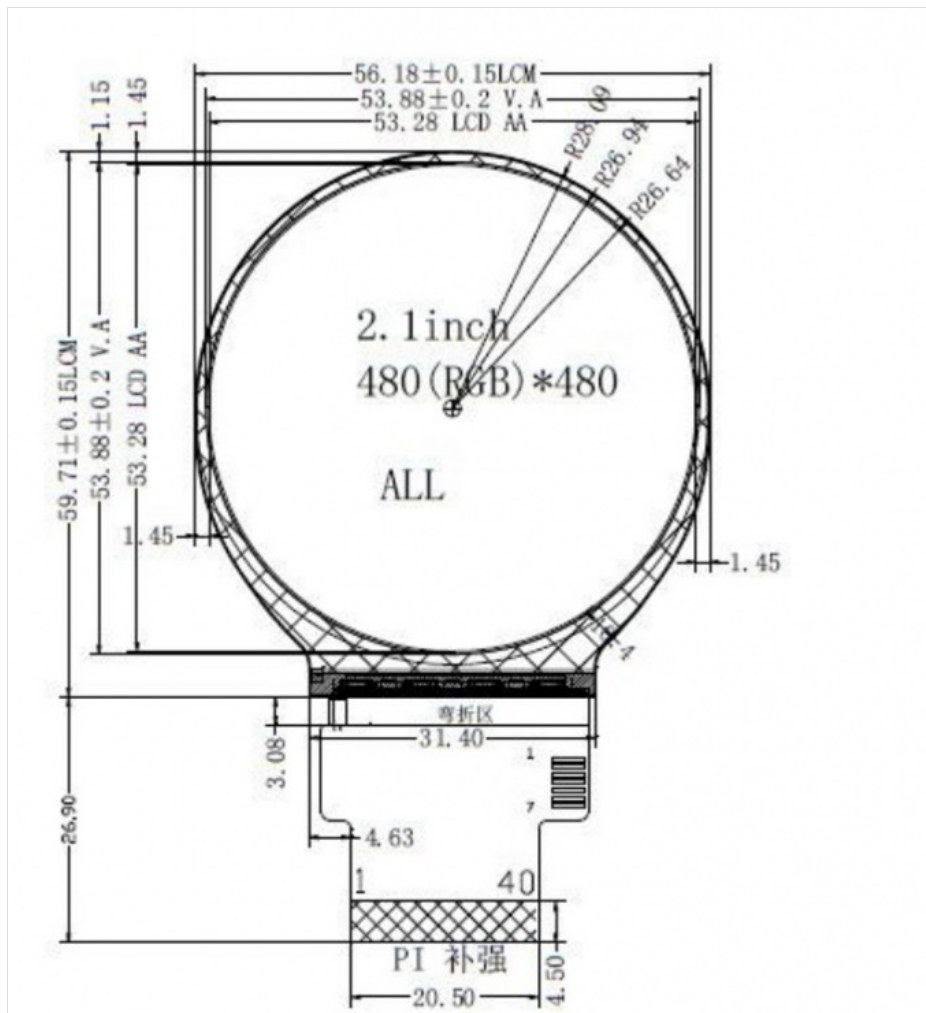
Smart Home and Household Appliances: Central control display screens for smart knob panels, coffee machines, microwave ovens, air conditioners, etc., presenting UI interfaces and parameters.

Industrial Control and Instruments: Portable testers, industrial control equipment, analyzers, with compact and intuitive operation and data display interfaces.

Vehicle electronics: Motorcycle gauges, car air conditioning control panels, in-car audio systems, featuring stylish circular interactive interfaces.

Medical and consumer electronics: Small medical testing devices, Bluetooth earphone charging cases, smart speakers, etc., enhance the design and interaction experience of the products.

Technical Drawing



Pin Definition

Pin	Signal	Description
Pin1	LEDA	LED Anode
Pin2	LEDK	LED Cathode
Pin3	LEDK	LED Cathode
Pin4	GND	Ground
Pin5	VCI	Power Supply
Pin6	RST	Reset signal, Active Low
Pin7	NC	No Connection
Pin8	NC	No Connection
Pin9	SDA	SPI Data signal
Pin10	SCK	SPI Clock signal
Pin11	CS	SPI chip select signal
Pin12	PCLK	RGB dot clock signal
Pin13	DE	RGB Data enable signal
Pin14	VSYNC	RGB frame synchronizing signal
Pin15	HSYNC	RGB line synchronizing signal
Pin16~Pin33	RGB data signal	DB0: Blue LSB; DB5: Blue MSB; DB6: Green LSB; DB11: Green MSB; DB12: Red LSB; DB17: Red MSB

Pin34	GND	Ground
Pin35	TP_INT	Touch interrupt
Pin36	TP_SDA	Touch I2C data signal
Pin37	TP_SCL	Touch I2C clock signal
Pin38	TP_RST	Touch I2C reset signal
Pin39	TP_VCI	Touch power supply
Pin40	GND	Ground





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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