

## IPS Round TFT LCD Display with 128x128 Resolution SPI Interface and Free Viewing Direction

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO90001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-47WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



### Product Specification

- Display Mode: Normal Black
- Interface: SPI
- Resolution: 128\*128 Pixels
- Viewing Direction: FREE
- Application: Smart Watch
- Surface Luminance: 250nits
- Highlight: Round TFT LCD Display 128x128,  
SPI Interface TFT Display ST7735P3,  
Round LCD Screen ST7735P3



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## Product Description

### IPS Round TFT LCD Display 128x128 SPI Interface ST7735P3 Free Direction

#### Small Size Round TFT LCD Display 128x128 Resolution SPI Interface

### Technical Specifications

Parameter	Specification
LCD Type	TFT
Panel Size	Customized
LCD Resolution	128x128 Dots
View Direction	Free
Driver IC	ST7735P3
Interface	SPI

No.	Item	Specifications
1	Product Name	Customized Round ShaCircle TFT LCD Display
2	Display Mode	Normal black
3	Viewing Direction	All
4	Resolution	128x128 dots
5	Operating Temperature	-20~+70
6	Storage Temperature	-30~+80
7	FPC Connector	25 pins, ZIF type
8	Panel Type	IPS
9	Interface	SPI
10	Backlight Type	3LEDs, White
11	Brightness	250 cd/m <sup>2</sup>
12	Outline Dimension	25.24(W) × 27.14(H) × 1.95(T) mm
13	Active Area	23.03(W) × 23.03(H) mm

This IPS circular TFT liquid crystal display is a display module suitable for small smart devices and embedded projects. With its compact size, flexible display characteristics, and simple interface, it has high adaptability in consumer electronics and industrial control scenarios.

### Product Core Characteristics

#### Outstanding Display Performance

Features a small-sized screen around 0.90 inches with 128x128 resolution using TFT thin film transistor technology, capable of presenting 262K colors with rich and detailed images. Clearly displays text, simple graphics, and animations. The IPS panel provides full-angle viewing with no significant viewing angle differences. The circular appearance distinguishes it from traditional square screens, suitable for devices with special aesthetic requirements.

#### Flexible Interface & Power Efficiency

Utilizes a 4-wire SPI interface requiring minimal pins for data transmission, significantly reducing hardware complexity. Compatible with microcontrollers like Arduino and STM32. Operating temperature range of -20°C to 70°C adapts to most daily and industrial environments. Most modules operate at 3.3V with some integrating level conversion circuits for 5V microcontroller compatibility. Features backlight control pin for PWM brightness adjustment and energy-saving control.

#### Advanced Driver Chip Technology

Powered by ST7735P3 driver chip with integrated RGB digital-to-analog converter and GPIO interface. Supports hardware-accelerated graphic drawing for fast point, line, rectangle, and text operations. Includes gamma correction, window setting, and sleep functions with extremely low

power consumption in sleep mode, ideal for battery-powered portable devices.

## Applications

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### Consumer Electronics

- Smart children's watches for time, steps, and call alerts
- Power banks displaying battery status, charging current, and voltage
- Smart mechanical buttons for intuitive status indication

### Embedded & Maker Projects

- Arduino and ESP32 projects as status screens for IoT devices
- Temperature and humidity sensor data display
- Simple embedded gaming systems with interactive graphics

### Industrial Instruments & Meters

- Handheld measuring instruments like multimeters and detectors
  - Industrial equipment auxiliary displays for control parameters
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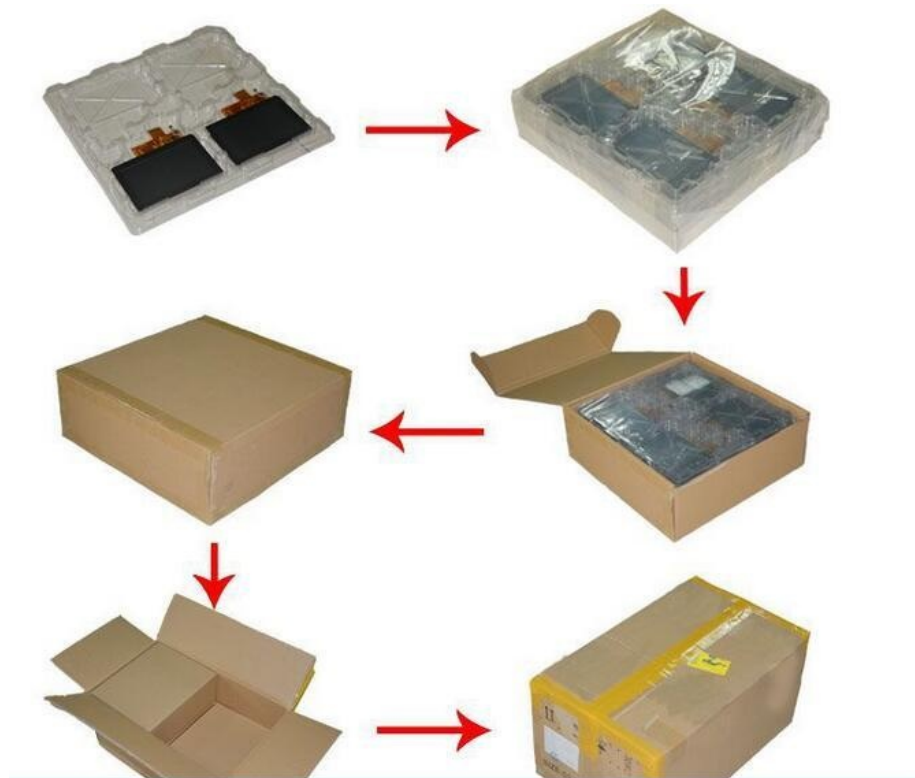
1.5寸



1.6寸

### Packaging & Shipping

**Packaging:** Carton boxes, Cupboard, EPE, Blister Tray. Packaging method depends on product size and customer requirements. Different countries have varying packaging standards.



**Shipping:** Express services including DHL, FedEx, EMS, UPS, air shipping, and sea shipping. Any preferred shipping method available.

						
	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 Methods



## Frequently Asked Questions

### Custom LCD Display Requirements

**Q:** I want an LCD display with 8 digits and outline size of 65x30x2.8mm?

**A:** Yes, we can accommodate custom requirements. Please provide your specifications or drawing. If unavailable, we can recommend suitable standard products or customize based on your requirements.

### Size Modifications

**Q:** This LCD is what we want, but it's too large. Do you have smaller sizes?

**A:** For segment type LCD modules requiring size or display content modifications, new LCD glass modules are needed requiring new tooling.

### Display Type Changes

**Q:** This LCD display is HTN type, but I want STN type. Can you make it?

**A:** Yes, we can change the display type according to your request.

### Custom LCD Modules

**Q:** I want to customize a new LCD module. Can you do it?

**A:** Yes, we can customize LCD modules. Please provide your drawing or specifications including outline size, glass thickness, polarizer, display type, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions.

### Tooling Lead Time

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

**A:** Typically 15 to 25 days after drawing confirmation and tooling charge payment. Exact timing provided upon drawing confirmation.

### Sample Availability

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

**A:** Yes, sample orders are available.

### Production Lead Time

**Q:** What is the lead time?

**A:** Standard products in stock ship within one day after payment. Mass production for custom orders typically takes 15-30 days, with earlier completion updates provided.

## Our Services

- Free repair within one year after product shipment
- Replacement within 30 days for product-related issues
- Custom logo printing and model number application
- Competitive shipping rates through established partnerships
- Professional technical support and after-sales service
- Comprehensive inspection and testing by engineers and QC/QA
- 24-hour response time for customer inquiries and issues
- Full customization capabilities for all types of LCD displays

## Product Applications

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### Household Appliances

Refrigerators, air conditioners, fans, heaters, water heaters, electric blankets, air purifiers, washing machines, dryers, vacuum cleaners, range hoods, microwave ovens, cookers, electric ovens, rice cookers, water dispensers, tea sets, and more.

### Communication Equipment

Telephones, intercoms, fax machines, wireless WiFi devices.

### Automotive Electronics

On-board entertainment systems, automobile fault detectors, CarLog systems, vehicle navigators, car audio, reverse radar, cameras, anti-theft devices.

### Instruments & Meters

Water meters, electric meters, multimeters, electronic scales, pressure meters, temperature meters, flow meters, display instruments, electrical instruments, space instruments, measuring instruments, analytical instruments, electrochemical instruments, optical instruments.

### Fitness Equipment

Treadmills, waist machines, fitness bikes, training devices, pedometers, code tables, beauty instruments, body fat measuring devices, fitness monitors, electronic blood pressure monitors, weighing scales.

### Financial Equipment

Tax control cash machines, POS machines, USB-key cheque printers, banknote counting machines, tax control invoice machines.

### Consumer Electronics

MP3/MP4 players, DVD players, electronic dictionaries, e-readers, early teaching machines, learning machines, electronic organs, electronic clocks, chronographs, calculators.

Features: High resolution, high definition, high brightness, cost-effective, energy efficient, wide temperature range operation, positive/negative display options.



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