



2.1 Inch Round TFT LCD Display with 480 x 480 Resolution and 450cd/m² Brightness for Smart Wearables

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

- Storage Temperature: -30--80
- Application: Consumer Electronics, Smart Wearables, Etc.
- Supplier Type: Manufacturer
- Resolution: 480 X 480 Pixels
- Viewing Direction: All
- Interface: SPI
- Surface Lumiance: 450/cd
- Color: 16.7 Million
- Highlight: **450cd/m² Brightness Round TFT LCD Display , 16.7 Million Colors TFT LCD Screen, All Viewing Direction Round Display**



2.1 Inch 480*480 Round TFT LCD Display Sweeping Machine Panel

Product Overview

High-performance 2.1-inch circular TFT LCD display with 480*480 resolution, designed for industrial and consumer applications requiring compact size, high pixel density, and excellent visual clarity.

Key Features

- Product Name: Round TFT LCD
- Pixel arrangement: RGB Stripe
- Drive element: TFT Active Matrix
- Luminance: 450cd/m²
- Active area: Φ 53.28
- IC/LCM Driver IC: ST7701S
- Shape: Round
- Type: TFT LCD
- Resolution: 480*480 pixels
- Color: 16.7 million
- Viewing angle: 160°
- Backlight: LCD
- Touch screen: optional
- High contrast and image quality
- Wide operating temperature range (-20°C to +70°C)
- Low power consumption
- Long lifespan
- Compact and lightweight design

Technical Specifications

Place of Origin	Guangdong, China
Certification	CE, ROHS, FCC
Minimum Order Quantity	Negotiable
Price	Negotiable
Packaging Details	Cardboard
Delivery Time	16 days
Payment Terms	T/T
Supply Ability	10,000 pcs
Number of pixels	480*480
Luminance	450cd/m ²
Size	2.1 inches
IC/LCM Driver IC	ST7701S
Operating Temperature	-20°C to +70°C

Product Images



Applications

This 2.1-inch circular TFT LCD display with 480*480 resolution (PPI approximately 270) is ideal for applications requiring portability, visual refinement, and scene adaptability:

Smart Speakers/Voice Assistants

Functions as a visual interaction window displaying time, weather, volume level, and network status. The circular shape complements rounded speaker designs, while the high resolution ensures clear text and icons for desktop or bedside use.

Portable Audio Devices

Perfect for high-end MP3 players and Bluetooth receivers to display song information, playback progress, and battery status. The display presents album cover thumbnails with excellent clarity, enhancing the audio-visual experience.

Miniature Sports Cameras

Ideal for ultra-small cameras (cycling or pet-worn models) to preview footage and display shooting modes and storage status. The compact size minimizes space requirements while maintaining image clarity.

Smartwatches

Suited for entry-level smartwatches focusing on battery life and basic functions (time, heart rate, steps, notifications). The circular design matches traditional watch aesthetics, with high resolution ensuring readable text.

Advanced Sports Bracelets

Differentiates from square bracelets with circular display showing sports modes, heart rate curves, and calorie data. The 2.1-inch size accommodates more information while maintaining smooth graphics.

Product Video

Frequently Asked Questions

I want the LCD display 8 digits and the outline size is 65x30x2.8mm?

Answer: No problem. Please send us your specifications or drawing. If unavailable, provide samples and we'll recommend suitable options or customize based on your requirements.

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.

Answer: For segment type LCD modules requiring size or content modifications, we'll need to create new tooling for a customized LCD glass module.

This LCD display is HTN type, but I want STN type, can you make?

Answer: Yes, we can modify the display type according to your requirements.

I want to customize a new LCD module. Can you do?

Answer: Yes, we offer customization services. Please provide your drawings or specifications including outline size, display information (glass thickness, polarizer, display type, connector mode, temperature range, voltage, viewing direction, drive conditions).

What is the lead time for tooling?

Answer: Typically 15-25 days after drawing confirmation and tooling payment. We'll provide exact timelines upon drawing approval.

Can you send us samples for checking?

Answer: Yes, sample orders are available.

What is the Lead Time?

Answer: For standard products in stock, 1 day after payment. For special mass production orders, approximately 15-30 days. We'll inform you if we can complete earlier.



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