

1.6 Inch 400 X 400 RGB 8 BIT Interface Round TFT LCD Display with High Resolution

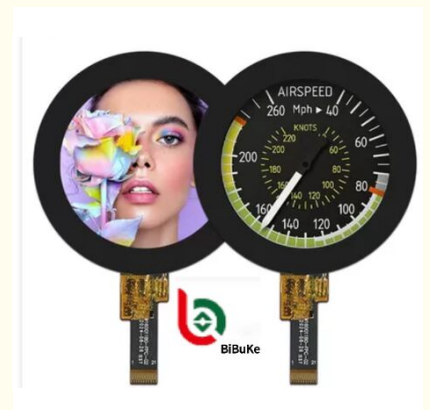
Basic Information

- 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

- LCM Interface: RGB 8 BIT Interface
- LCD Type: Normally Black
- Touch Ic: ST1624i
- Number Of Pixel: 400 × 400 Pixels
- Commodity: 1.6 Inch Round TFT LCD Display
- Operating Temp: -20 ~ + 70
- Viewing: All O'clock
- Ltps Glass Outline: 53.3*53.3*3.19
- Highlight: **1.6 Inch Round TFT LCD Display, 400 X 400 Resolution Round TFT LCD Display, RGB 8 BIT Interface Round TFT LCD Display**



1.6 Inch 400 X 400 RGB Interface Round TFT Screen LCD Module Display

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Technical Parameters

ITEM	Standard value	Unit
size	1.6	Inch
LCD Type	Normally black	--
Drive element	TFT active matrix	--
Number of pixels	400*3RGB(H)X400(V)	Dots
Pixel arrangement	RGB stripe	--
Pixel Pitch (W*H)	0.0996	mm
Active area	Φ39.84	mm
Mechanical OutlineSize(W*H*T)	53.3*53.3*3.19	mm
Viewing direction	ALL O'CLOCK	-
LCM Driver IC	ST77903	-
LCM interface	RGB 8 BIT Interface	-
Lcm pin count	21	
Backlight leds	3	pcs
Backlight current	60	mA
Backlight voltage	3.2	V
Operating temperature	-20+70	
Storage temperature	-30+80	
Lumens degrees	350	cd/

Features

- Product Name: Round TFT LCD
- Active area: 39.84(H) * 39.84(V)
- IC/LCM Driver IC: ST77903
- Pixel arrangement: RGB Stripe
- Drive element: TFT Active Matrix
- Viewing direction: ALL O'CLOCK
- Round TFT Liquid Crystal Display
- Circular TFT LCD
- Round TFT LCD Module
- Circular LCD Screen
- Active Matrix Display



The 1.6-inch 400*400 RGB interface round TFT screen liquid crystal module is a small circular color liquid crystal display component with high resolution and excellent color performance.

Key Specifications

- **Dimensions:** Diagonal size is 1.6 inches, with an effective display area diameter of approximately 39.84mm
- **Resolution:** 400*400 pixels, providing clear image display
- **Interface type:** RGB interface compatible with various microcontrollers and development boards
- **Brightness:** Approximately 300cd/m² with contrast ratio of 800:1
- **Viewing angle:** IPS full viewing angle (80°/80°/80°/80°)
- **Operating temperature:** -20 to 70 (some models support -30 to 80)

Display Principle

The TFT screen precisely controls each pixel through a thin-film transistor array. The LED backlight emits white light diffused by the light guide plate. The liquid crystal layer changes molecular arrangement under voltage control, adjusting light transmission intensity. The RGB color filter decomposes light into primary colors to form full-color images.

Application Fields

- **Smart wearable devices:** Smart watches and bands displaying time, health data, and notifications
- **Smart home devices:** Control panels for appliances showing menus and operating status
- **Vehicle displays:** Dashboards and multimedia systems showing speed, navigation, etc.
- **Instrumentation:** Electronic thermometers and smart meters displaying measurement data

Frequently Asked Questions

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

Answer: No problem. Please send us your specification/drawing paper. If you don't have specifications, you can provide samples; we'll recommend suitable standard products 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, modifying outline size or display content requires a new LCD glass module with new tooling.

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

Answer: Yes, we can change the type as per your request.

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

Answer: Yes, we can. Please send your drawing paper or provide outline size, display information (glass thickness, polarizer, display type, connector mode, storage temp, operating temp, supply voltage, viewing direction, drive condition).

What is leading time for tooling?

Answer: Typically 15 to 25 days after drawing confirmation and tooling payment. We'll provide exact timing upon drawing confirmation.

Can you send us samples for checking?

Answer: Yes, sample orders are available.

What is the Leading Time?

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



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