

2.8 inch 240x320 Resolution IPS TFT LCD Display with 4-Wire SPI Interface

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 Color: 262k
- Operating Temperature: -20°C To 70°C
- Interface: 4W SPI / Customized
- Contrast Ratio: 800:1
- Technology Type: A-Si
- Viewing Direction: All
- Display Mode: Normally Black
- Resolution: 240*320 Pixels
- Highlight: **2.8 inch TFT LCD Display ,
240x320 resolution IPS LCD Screen ,
4-wire SPI Interface Display**



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Product Description

2.8" 240x320 4-Wire SPI Interface IPS TFT LCD Display

Technical Specifications

Parameter	Specification	Parameter	Specification
Screen Size	2.8 inch	Viewing Direction	ALL
Number of Pixels	240RGB(H)×320(V)	Display Color	262K
Pin	14 pins	Luminance	300 nit
Display Area	43.20(H)×57.60(V)mm	Interface	4-wire SPI
Pixel Pitch	0.180(H)×0.180(V)mm	Back-light	LED Side-light type
Outline Dimension	50.00×69.20×2.30mm	Drive IC	ST7789V
Pixel Arrangement	RGB Vertical Stripe	Operation Temperature	-20~70°C
Display Mode	Normally Black	Storage Temperature	-30~80°C

Product Overview

This 2.8" 240x320 color TFT panel features a 4-wire SPI interface and IPS LCD screen technology, delivering exceptional performance for various applications.

Key Features

High-Quality Display: 2.8-inch diagonal screen with QVGA resolution (240×320 pixels) ensures clear, sharp text and graphics

IPS Panel Technology: Excellent color reproduction with wide 160° viewing angles and minimal color shift

4-Wire SPI Interface: Fast transmission speed with simple control logic, compatible with Arduino, ESP32, STM32, and Raspberry Pi Pico

Rich Color Support: Capable of displaying 262K colors for vibrant visual presentations

LED Backlight: White LED side-light type with 300nits brightness for clear visibility in various lighting conditions

Compact Design: Small form factor (50.00×69.20×2.30mm) for easy integration into various devices

Applications

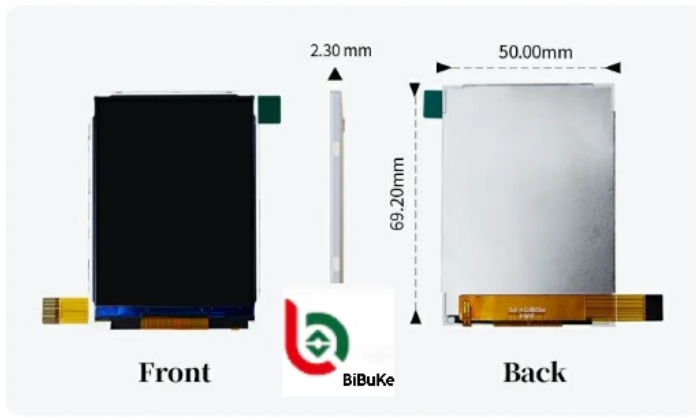
Embedded Control Systems: Industrial control panels, temperature monitors, automation equipment interfaces

DIY Electronics: MP3 players, retro game consoles, electronic clocks, and custom projects

IoT Devices: Environmental monitoring terminals, remote alarm systems, smart doorbells

Educational Platforms: Teaching experiments for understanding TFT LCD technology and SPI communication





Frequently Asked Questions

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

No problem. Please send us your specifications or drawing. If you don't have specifications, you can provide samples and we'll recommend suitable 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.

For segment type LCD modules, modifying outline size or display content requires a new LCD glass module with custom tooling.

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

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

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

Yes, we can customize for you. Please send your drawing or provide details including outline size, glass thickness, polarizer, display type, connector mode, temperature specifications, and drive conditions.

What is the lead time for tooling?

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

Can you send us samples for checking?

Yes, sample orders are available for evaluation.

What is the lead time?

For standard products in stock: 1 day after payment. For mass production of custom items: 15-30 days. We'll notify you if we can complete earlier.



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