

2.2 Inch TFT Display with 240x320 Resolution and 18 Bits Interface LCD Screen

Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



Product Specification

- Outline Size: 40.6*56.6*2.7 Mm
- Resolution: 240*320 Pixels
- Touch Screen: Without Touch Screen (Customizable)
- Display Technology: TFT LCD
- Display Size: 2.2 Inches
- Connect: RGB 18bits
- Viewing Direction: 12 O'clock
- Fpc Connect: 39 Pins
- Highlight: **240x320 Resolution TFT Display,
2.2 Inch LCD Display,
18 Bits Interface TFT LCD Screen**



Product Description

240x320 2.2 Inch TFT Display with ST7789V Driver IC

High-performance 2.2-inch TFT LCD display featuring 240x320 resolution and ST7789V driver IC with 18-bit RGB interface.

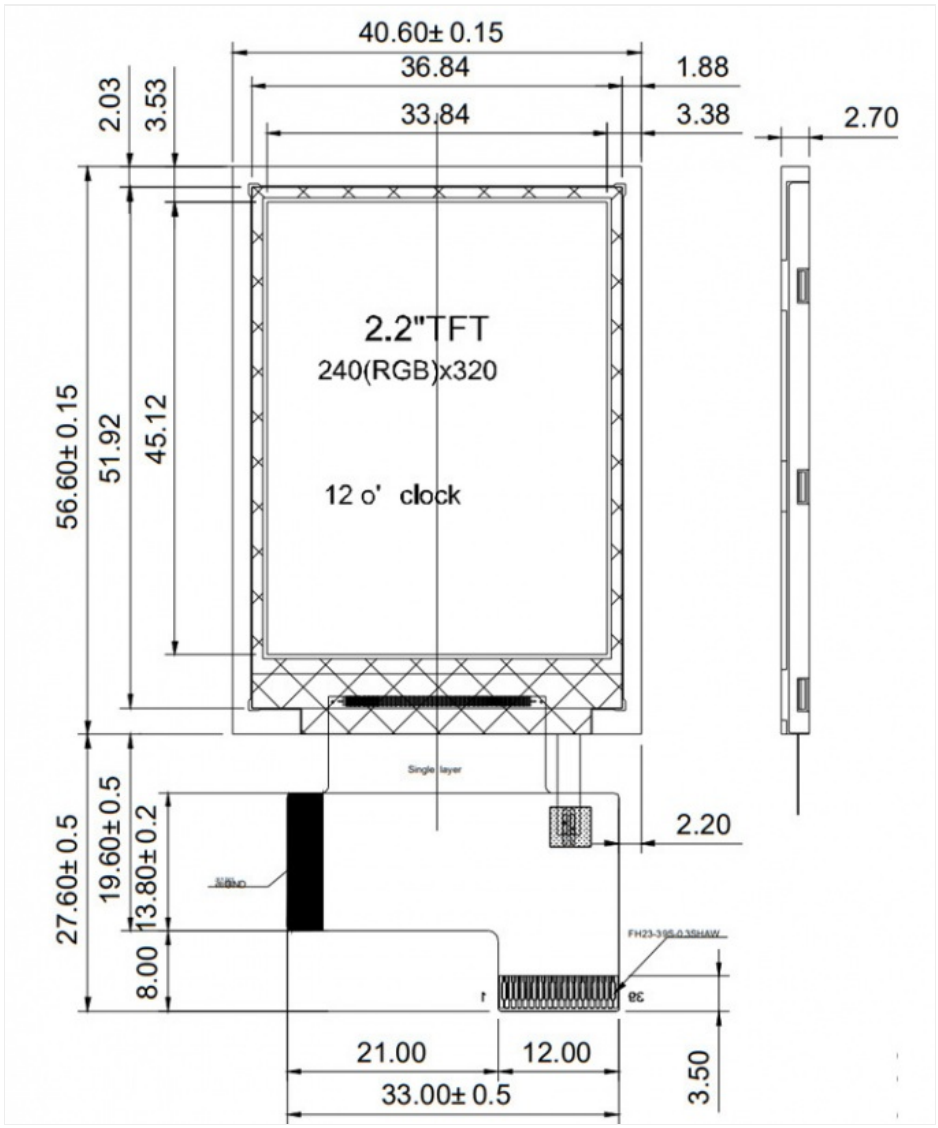
Technical Specifications

Product	2.2" RGB TFT LCD
Resolution	240x320 Dots
Touch Screen	Without Touch Screen (Customizable)
Viewing Direction	12 O'clock
Interface	RGB 18bits
Pin Number	39 Pins
Connection	Plugging
Surface Luminance	200 Cd/m ²
Operating Temperature	-20 To +70
Compliance	ISO9001 & RoHS Compliant

Product Advantages

- Excellent display performance with background color, luminance, viewing angle, and intensity - surface luminance can reach 1000 nits
- High quality level suitable for industrial and medical applications
- Flexible options with or without resistive touch screen, plus customizable capacitive touch panel and FPC
- Price competitive solution with superior quality in the LCD industry
- Easy to install and maintain

Product Drawings





Detailed Parameters

This 2.2-inch screen delivers clear display effects suitable for small images and text information. The transmissive display mode uses white LED backlighting with a contrast ratio of 600:1 for excellent color presentation. Operating temperature range is -20 to 70 with storage temperature of -30 to 80 , ensuring reliable environmental adaptability.

Driver Chip Features

The ST7789V driver chip includes built-in memory with maximum 18-bit usage width and RGB pixel control from 12 to 18 bits. Supports RGB444, RGB565, and RGB666 color modes with both parallel (8080 standard) and serial (SPI) interfaces for flexible integration.

Interface Characteristics

39-pin configuration supporting 18-bit interface for high data transmission rates, enabling rich color display and smooth image refresh. Compatible with MCU and SPI interfaces for easy connection to microcontrollers including STM32 and Arduino.

Design Features

Compact design with narrow borders and small footprint for easy integration into various small devices. Rectangular shape with FPC (flexible printed circuit board) connection for simplified installation and wiring.

Application Areas

Industrial Control: PLC controllers, HMI interfaces displaying equipment status, parameters, and fault codes for real-time monitoring and maintenance.

Medical Equipment: Portable ultrasound machines, handheld blood oxygen meters, monitors displaying ECG waveforms, blood oxygen saturation, and ultrasound images.

Smart Home: Smart door locks, thermostats, curtain controllers with dynamic password interfaces and operational status displays.

Automotive Electronics: In-vehicle navigation, rearview cameras, dashboard displays showing monitoring data and vehicle information.

Electronic DIY & Embedded Development: Ideal for smart watches, dashboards, thermometers, timers, and creative electronic projects.

Frequently Asked Questions

Can you customize LCD displays with specific dimensions and digit requirements?

Yes, please provide your specifications or drawings. If unavailable, we can recommend suitable products or create custom solutions.

Can you provide smaller sizes or modify display content?

For segment type LCD modules requiring size or content modifications, new tooling is required for custom LCD glass modules.

Can you change display types (HTN to STN)?

Yes, we can modify display types according to your requirements.

Do you offer custom LCD module development?

Absolutely. Please provide drawings or specifications including outline size, display information, glass thickness, polarizer, connector mode, and operating conditions.

What is the tooling lead time?

Typically 15 to 25 days after drawing confirmation and tooling payment, with exact timelines provided upon approval.

Do you provide samples for evaluation?

Yes, sample orders are available for quality verification.

What are your production lead times?

Standard products: 1 day after payment if in stock. Mass production for custom orders: 15-30 days, with earlier completion updates provided.

Production Capabilities

- Clean Room: Class 10k@0.8um, Pressure 0.8kgf
- Antistatic Floor: Resistance 1x10 ohm to 1x10 ohm
- COG Production Lines: 4
- Backlight Production Lines: 2
- Monthly Capacity: 1 million units



Production Equipments (1)

This slide features a 2x2 grid of images showing various production equipment. The top-left image is labeled 'Silk Screen', the top-right 'Spacer Spraying', the bottom-left 'Short Detection', and the bottom-right 'ITO Repair'. A 'BigBook' logo is in the top-left corner, and a footer at the bottom reads 'Create the highest value to customers, and offer opportunity to all staff to achieve personal growth.'



Production Equipments (2)

This slide features a 2x2 grid of images showing various production equipment. The top-left image is labeled 'Glass Cutting', the top-right 'Glass Cutting', the bottom-left 'Automatic Pins Insertion', and the bottom-right 'Automatic Stripping'. A 'BigBook' logo is in the top-left corner, and a footer at the bottom reads 'Create the highest value to customers, and offer opportunity to all staff to achieve personal growth.'



Production Equipments (3)



COG Plasma Cleaner



OOB Automatic Bonding



OOB Bonding



Polarizer Attach

BigBook

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