

## High Brightness 420 Cd/m2 3.97-inch TFT LCD Display with MIPI (DSI) Interface

Our Product Introduction

### 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

- Surface Luminance: 420 Cd/m2(nits)
- Dimensions: 57.14 X 96.85 X 1.95 Mm
- Screen Size: 3.97 Inches
- Product Type: TFT LCD Screen
- Operating Temperature: -20°C To 70°C
- Backlight Type: LED
- Pin Number: 24 PIN
- Interface: MIPI (DSI)
- Highlight: **High Brightness TFT LCD Display ,  
3.97-inch TFT LCD Screen ,  
MIPI Interface LCD Display Module**



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## High Brightness 480x800 3.97-inch TFT LCD Display

This high-performance 3.97-inch TFT LCD display module delivers exceptional clarity and brightness for demanding industrial applications.

### Technical Specifications

<b>Product</b>	3.97-inch TFT LCD	<b>Resolution</b>	480 × 800 Pixels (RGB)
<b>Driver IC</b>	NT35512SH Or Equivalent	<b>Outline Dimensions</b>	57.14 × 96.85 × 1.95 mm
<b>Operating Temperature</b>	-20°C to +70°C	<b>Touch Panel Option</b>	Customizable (RTP/CTP Available)
<b>Viewing Direction</b>	All Viewing Angles (IPS)	<b>Interface</b>	MIPI (DSI)
<b>Contrast Ratio</b>	800:1 (Typical)	<b>Pin Number</b>	24 Pins
<b>Surface Luminance</b>	420 Cd/m <sup>2</sup> (nits)	<b>Backlight Type</b>	White LED
<b>LED Lifetime</b>	40,000 Hours	<b>Compliance</b>	REACH & RoHS Compliant

### Product Overview

This advanced 3.97-inch TFT LCD module combines high brightness with excellent image quality. Featuring MIPI interface technology for high-speed data transmission and NT35512SH driver IC for precise control, it ensures smooth, vibrant display performance even in challenging lighting conditions.

### Key Features

- High Brightness:** 420 nits surface luminance ensures excellent visibility in outdoor and bright environments
- IPS Technology:** Wide viewing angles from all directions
- Fast Response:** TFT technology enables quick response times and superior color performance
- Compact Design:** Slim profile (1.95mm thickness) facilitates integration into space-constrained devices
- Robust Construction:** Operates reliably across -20°C to +70°C temperature range
- Long Lifespan:** 40,000-hour LED backlight lifetime ensures durability

### Applications

- Handheld Devices:** Industrial terminals, rugged walkie-talkies, data collection equipment
- Smart Instruments:** Multimeters, oscilloscopes, measurement devices
- Robotics:** Educational robots, service robots, human-machine interfaces
- Vehicle Displays:** Dashboard instruments, secondary control screens, navigation systems
- Medical Equipment:** Nurse scanning PDAs, portable monitoring devices, diagnostic tools



## Frequently Asked Questions

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

Yes, we can accommodate custom specifications. Please provide your detailed specification drawings or samples. For standard products, we can recommend suitable options, or we can fully customize based on your requirements.

### This LCD is what we want, but it's too large. Do you have smaller sizes? We also need minor display content modifications.

For segment-type LCD modules requiring outline size changes or display content modifications, we can create new LCD glass modules. This requires opening new tooling specifically for your project.

### This LCD display is HTN type, but I want STN type. Can you manufacture this?

Absolutely. We can modify the display type according to your specifications and requirements.

### Can you customize a new LCD module for our application?

Yes, we specialize in custom LCD solutions. Please provide your drawing specifications. If drawings are unavailable, provide details including outline size, display information, glass thickness, polarizer type, display type, connector mode, storage temperature, operating temperature, supply voltage, viewing direction, and drive conditions.

### What is the lead time for tooling development?

Typically, tooling requires 15 to 25 days after drawing confirmation and tooling charge payment. We will provide exact timelines upon drawing approval.

### Can you provide samples for evaluation?

Yes, sample orders are available for quality verification and testing.

### What is your production lead time?

For standard products in stock, lead time is one day after payment. For mass production of custom orders, lead time is approximately 15-30 days. We will notify you promptly if we can complete orders ahead of schedule.



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