

5.6-inch Diagonal TFT LCD Display Module with 640x480 Resolution and 250 cd/m² Brightness for Industrial Applications

Our Product Introduction

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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 Technology: TFT LCD
- Surface Luminance: 250 Cd/m²(nits)
- Outline Size: 126.5mmx100mmx9.5mm
- Display Type: TFT LCD
- Interface: 24 Bits-RGB Interface
- Operating Temperature: -20°C To 70°C
- Storage Temperature: -30°C To 80°C
- Backlight Type: LED
- Highlight: **5.6-inch Diagonal TFT LCD Display Module, 640x480 Resolution Industrial Display, 250 cd/m² Brightness LCD TFT Screen**



Product Description

5.6-inch Diagonal TFT LCD Display Module

Product Overview

High-performance 5.6-inch industrial TFT LCD display module featuring 640x480 VGA resolution, 250 cd/m² brightness, and wide operating temperature range for demanding applications.

Technical Specifications

Display Size (Diagonal)	5.6"
LCD Type	TN TFT
Display Mode	Transmissive / Normally White
Resolution	640 RGB x 480
View Direction	12 O'CLOCK
Active Area	112.896(H) x 84.672(V) mm
Interface	24 Bits-RGB Interface
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C

Key Technical Advantages



Enhanced Visibility

640x480 resolution with anti-glare polarizer, 250 cd/m² brightness, 500:1 contrast ratio



Industrial-Grade Durability

Operates at extreme temperatures, withstands 100G mechanical shock



Engineered for Stability

24-bit RGB interface with dual-voltage drive system

Optical Characteristics

Item	Min	Typ	Max	Unit
Luminance	200	250	-	cd/m ²
Contrast Ratio	600	1000	-	-
Response Time	-	25	50	ms
Viewing Angle (Horizontal)	60	70	-	Deg.
Viewing Angle (Vertical)	40	50	-	Deg.

Backlight Characteristics

Item	Min	Typ	Max	Unit
Backlight Voltage	-	9.3	-	V
Backlight Current	-	100	-	mA
LED Working Life	20000	30000	-	Hrs

External Dimensions

Product Features

- Compact and lightweight design for space-constrained installations
- Low power consumption suitable for battery-powered portable devices
- Wide operating temperature range (-20°C to +70°C)
- RoHS compliant with strict environmental and safety standards
- Anti-glare polarizer surface treatment for reduced reflections

Applications

- Industrial Control:** Human-machine interface for automation equipment
- Intelligent Instruments:** Measurement and analytical instrument displays
- Charging Stations:** Operation interface and status display
- Smart Home:** Control center display for home automation systems
- Transportation:** Vehicle display systems for buses, taxis, and navigation
- Portable Electronics:** Data acquisition terminals and handheld devices

Frequently Asked Questions

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

Yes, please send us your specifications or drawings. If you don't have specifications, provide samples and we'll recommend suitable standard products or customize based on your requirements.

This LCD is what we want, but it's too big. Do you have smaller sizes? Can the display content be modified?

For segment type LCD modules requiring size or content modifications, we can create new tooling for custom glass modules.

This LCD display is HTN type, but I want STN type. Can you make it?

Yes, we can modify the display type according to your specifications.

Can you customize a new LCD module?

Yes, we provide full customization services. Please send your drawings or provide specifications including outline size, display information, glass thickness, polarizer type, connector mode, and operating conditions.

What is the lead time for tooling?

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

Can you send samples for evaluation?

Yes, sample orders are available for testing and verification.

What is the lead time for production?

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



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