

## 2.8-Inch 240x320 Transflective TFT LCD Display Module with MCU/SPI Interface

### 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

- Active Area: Customizable
- Contrast Ratio: 500:1
- Touchscreen: 4-Wire Resistive (Optional/Customizable)
- Brightness: 300 Cd/m<sup>2</sup>
- Display Technology: TFT LCD
- Backlight: 4 LEDs, Edge-lit
- Light Source: White LED
- Resolution: 240\*320
- Highlight: **2.8-Inch TFT LCD Display, 240x320 Resolution LCD Module, Transflective TFT Screen**



## 2.8-Inch 240x320 Transflective TFT LCD Display

### Technical Specifications

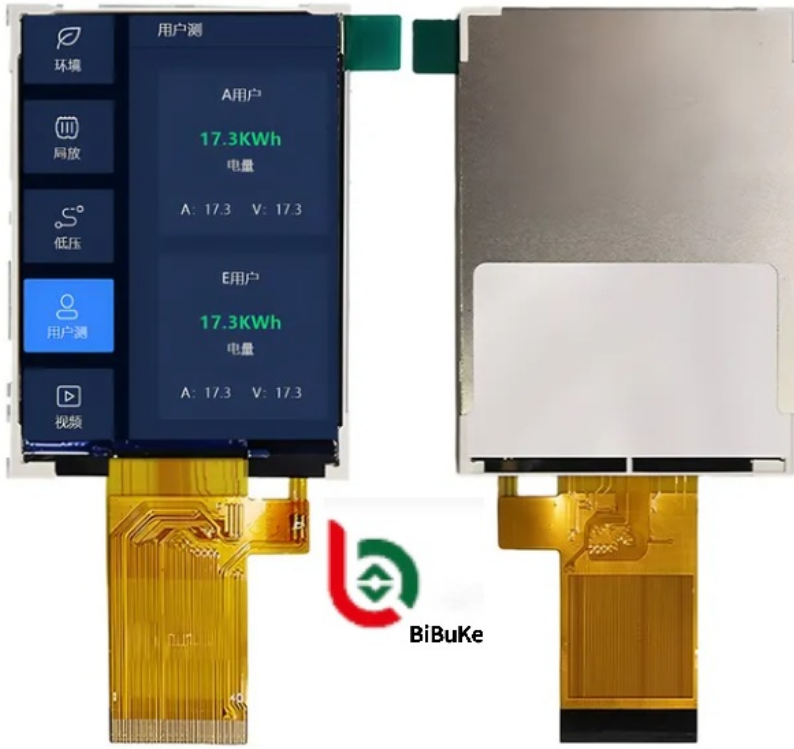
Display Type	Transflective TFT LCD
Screen Size	2.8 Inch
Resolution	240 × 320 Pixels
Brightness	300 Cd/m <sup>2</sup> (typical)
Contrast Ratio	500:1
Viewing Angle	60° All Directions
Interface	MCU (8/16-bit) & SPI (3/4-wire)
Driver IC	ST7789T3
Operating Temperature	-20°C to +70°C
Backlight	4 LEDs, Edge-lit
Power Supply	VDD 2.4-3.3V, VDDI 1.65-3.3V
Compliance	REACH & RoHS Compliant
Touch Interface	4-Wire Resistive (Optional/Customizable)
Customization	Free Technical Support & Semi-Custom Design Available

### Product Features

- High-Quality Display:** 2.8-inch screen with 240×320 resolution delivers sharp images and text with excellent clarity
- Advanced Interface Support:** Compatible with both MCU and SPI interfaces for flexible integration with various microcontrollers
- Superior Display Performance:** TFT technology provides vibrant colors, high contrast ratios, and fast response times
- Transflective Design:** Maintains clear visibility with backlighting while offering energy efficiency benefits
- Compact Form Factor:** Slim profile and small footprint enable easy integration into diverse device designs
- Wide Temperature Range:** Reliable operation from -20°C to +70°C for demanding environments

### Application Areas

- Automotive Electronics:** Navigation systems, dash displays, and driving recorders
- Industrial Control:** Instrument panels, control systems, and equipment status monitors
- Consumer Electronics:** Digital cameras, portable gaming devices, and smart wearables
- Medical Equipment:** Patient monitors, diagnostic devices, and medical instrumentation
- Security Surveillance:** Camera displays and monitoring system interfaces





## Frequently Asked Questions

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

Yes, we can accommodate this requirement. Please provide your detailed specifications or drawing. If you don't have formal documentation, you can send samples, and we'll recommend suitable standard products or create a custom solution based on your needs.

### **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 size reduction or display content changes, we'll need to create a new LCD glass module, which involves 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 to STN 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 or specify requirements including outline size, display information (glass thickness, polarizer type, display technology, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions).

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

Tooling typically requires 15-25 days after drawing confirmation and tooling charge payment. We'll provide exact timelines once we review your specifications.

### **Can you provide samples for evaluation?**

Yes, sample orders are available for your testing and evaluation purposes.

### **What are your production lead times?**

For standard products in stock, lead time is one day after payment. For mass production of custom orders, lead time is typically 15-30 days. We'll notify you immediately if we can complete your order ahead of schedule.



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