

## 4.3 Inch IPS Tft Display 480x800 Wide-temp Lcm From Shenzhen Small Lcd Suppliers

### Our Product Introduction

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#### Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: RoHS CE、FCC
- Model Number: CH400WV23A
- Minimum Order Quantity: 100 Pcs
- Packaging Details: All The Products Are Packed In Right Way To Keep It Safe. For Small Sizes Of Products We Use Tray + Carton, For Bigger Sizes We Use Foam Slot + Carton. We Also Design Packages According To Customers' Requirements
- Delivery Time: 3~7 Days
- Payment Terms: TT
- Supply Ability: 300K Pcs/month



#### Product Specification

- Resolution: 480x800 Dots
- Screen Size: 4.3 Inch
- Active Area Size: 56.16x93.6 Mm
- Module Size: 61.56x104.65x2.55 Mm
- Touch Type: No Touch
- Screen Brightness: 300 Cd/m2
- Module Type: 4.3" TFT
- Viewing Direction: 80/80/80/80
- Highlight: 4.3 inch IPS TFT display, 480x800 wide-temp LCD, small LCD suppliers Shenzhen



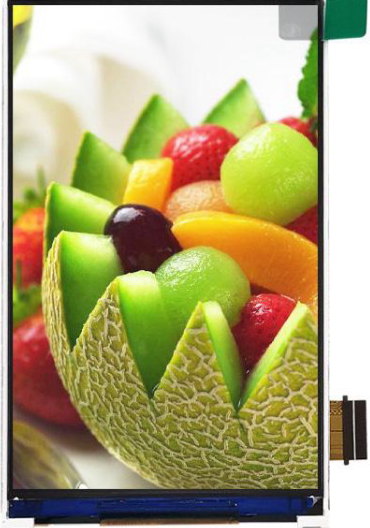
#### More Images





## Product Description

### Product Description:

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| <p>The CH430WV23A is a 4.3-inch IPS TFT LCD module engineered to deliver outstanding display performance and versatile integration capabilities. Featuring a resolution of 480×800 pixels, it provides sharp, vivid images with excellent detail and contrast, making it suitable for both text-based and graphical user interfaces. Its IPS (In-Plane Switching) technology ensures full viewing angles of 80/80/80/80 (U/D/L/R), maintaining consistent brightness and color accuracy from any perspective — a crucial feature for industrial, automotive, and smart device applications.</p> <p>This display module utilizes an MCU parallel interface, offering flexible and reliable connectivity with a wide range of microcontrollers and embedded systems. Its use of *** driver IC enhances compatibility and ensures stable data transmission, resulting in smooth display performance. The CH430WV23A adopts a transmissive/negative polarizer mode with LED backlighting, producing a brightness of up to 300 cd/m². This enables clear visibility even under strong ambient lighting conditions, which is ideal for outdoor or semi-outdoor environments.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Designed for durability, the CH430WV23A supports a wide operating temperature range from -20°C to +70°C and storage temperatures between -30°C and +80°C. This robust design guarantees reliable performance in challenging environmental conditions such as high humidity, extreme heat, or freezing temperatures. In addition, the product complies with RoHS environmental standards, ensuring eco-friendly manufacturing and long-term reliability.</p> <p>With its slim structure, compact size, and superior optical performance, the CH430WV23A is well-suited for applications in industrial control panels, smart home systems, medical equipment, IoT terminals, and automotive dashboards. Its combination of clarity, stability, and adaptability makes it a preferred choice for engineers and manufacturers seeking a high-quality display solution that balances performance with efficiency.</p> |

### Features:

#### 1. High-Resolution Visual Experience

The CH430WV23A offers a crisp 480×800 pixel resolution on a 4.3-inch display, delivering excellent image sharpness and fine detail. This resolution level ensures clear visibility of text, icons, and complex graphics, making it highly suitable for data visualization and compact user interfaces. Whether applied in control panels, portable devices, or smart instruments, the display enhances readability and provides a professional visual presentation.

#### 2. Wide Viewing Angle with IPS Technology

Built with advanced IPS technology, the CH430WV23A supports a full viewing angle of 80/80/80/80 (U/D/L/R). This ensures consistent brightness, contrast, and color reproduction from every direction without color distortion or fading. The wide-viewing capability makes it ideal for multi-angle usage environments such as industrial instruments, public display terminals, and automotive dashboards, where display clarity must remain stable regardless of viewing position.

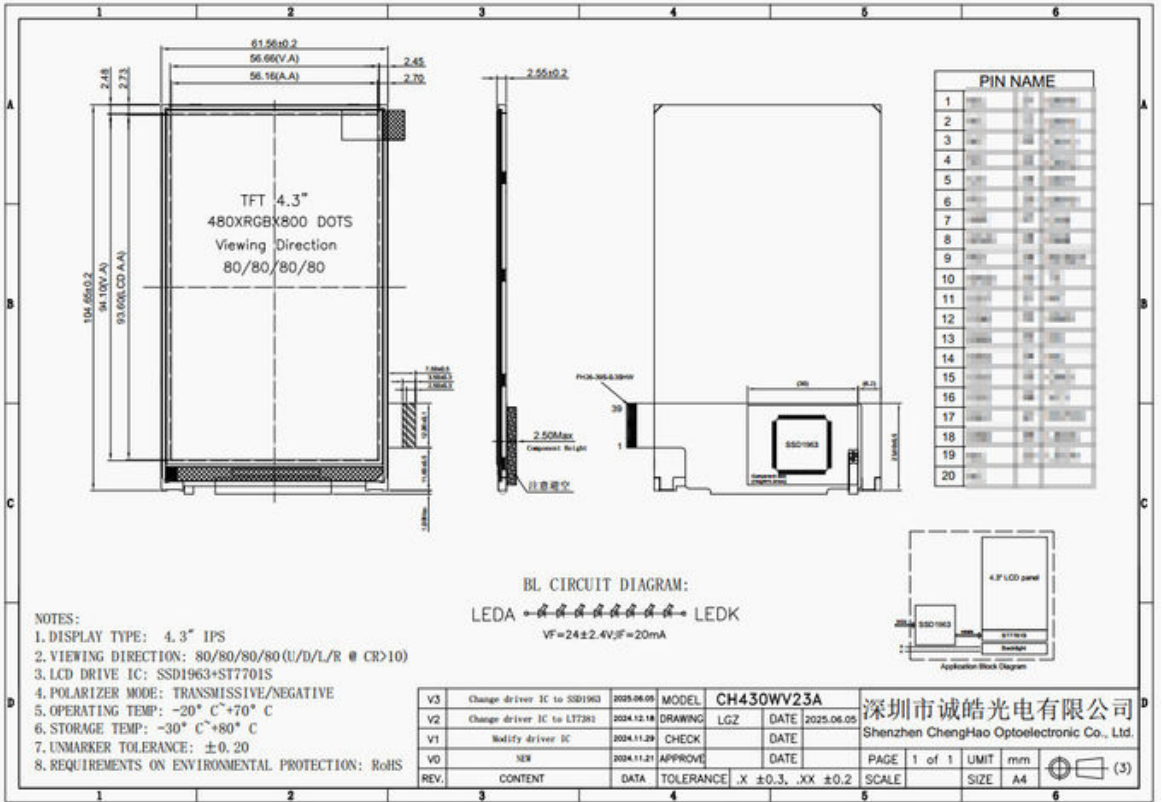
#### 3. Broad Temperature Tolerance for Harsh Environments

The CH430WV23A is designed for reliable operation under extreme conditions, featuring an operating temperature range of -20°C to +70°C and storage capability from -30°C to +80°C. This wide temperature endurance ensures stable performance in both hot and cold

environments, making it ideal for outdoor installations, automotive electronics, and industrial machinery that must function continuously under demanding conditions.

Technical Parameters:

|                   |                                 |
|-------------------|---------------------------------|
| Color             | 16M                             |
| Resolution        | 480x800 Dots                    |
| Active Area Size  | 56.16x93.6 Mm                   |
| Screen Brightness | 300 Cd/m2                       |
| Viewing Area Size | 56.66x94.1 Mm                   |
| Contrast          | 800                             |
| FPC Pin numbers   | 39                              |
| Screen Size       | 4.3 Inch                        |
| Display Mode      | IPS/Transmissive/Normally Black |
| Viewing Direction | 80/80/80/80                     |



Customization:

The CH430WV23A LCD module provides flexible customization options to meet the specific design and performance requirements of various industries. With its adaptable structure and open interface design, it allows manufacturers to tailor multiple parameters such as FPC layout, brightness, and signal interface according to their application needs.

1. FPC Shape and Structure Customization

The flexible printed circuit (FPC) of the CH430WV23A can be designed to match the customer's mechanical layout, ensuring a perfect fit within compact devices or specialized housings. Adjustments can be made to the FPC's length, pin arrangement, and connector position to accommodate unique installation requirements. This flexibility helps streamline assembly, reduce wiring complexity, and enhance overall system stability — particularly beneficial for applications in automotive dashboards, smart terminals, and portable industrial instruments.

2. Adjustable Brightness and Backlight Configuration

To adapt to different lighting conditions, the CH430WV23A supports customizable brightness levels ranging from standard indoor luminance to high-brightness configurations suitable for outdoor visibility. Customers can modify the LED backlight design, including LED count, voltage, and current parameters, to achieve specific brightness targets or optimize power consumption. Optional optical enhancements, such as anti-glare or high-transmittance films, can also be integrated to further improve display performance.

3. Interface and Signal Definition Customization

The module features a versatile MCU interface by default, but it can be reconfigured to support alternative communication types such as RGB, SPI, or MIPI (depending on the driver IC compatibility). This allows seamless integration with different host systems or processors. In addition, signal pin definitions can be adjusted to match custom control logic or hardware layouts, ensuring efficient communication and simplifying circuit design.

Through these flexible customization options, the CH430WV23A can be precisely adapted to meet the visual, mechanical, and electrical requirements of various projects. Whether for industrial equipment, IoT devices, or automotive electronics, the module provides manufacturers with a dependable platform for tailored display solutions.

## FAQ:

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**Q: What is the brand name of this Small LCD Touch Screen?**

A: The brand name is Chenghao Optoelectronic.

**Q: Can you provide the model number of this Small LCD Touch Screen?**

A: The model number is CH400WV23A.

**Q: What certifications does this Small LCD Touch Screen have?**

A: This product is certified with RoHS, CE, and FCC.

**Q: What is the minimum order quantity for this Small LCD Touch Screen?**

A: The minimum order quantity is 100 pieces.

**Q: What are the packaging details for this Small LCD Touch Screen?**

A: All the products are packed in the right way to keep them safe. For small sizes, we use Tray + Carton, and for bigger sizes, we use Foam Slot + Carton. We also design packages according to customers' requirements.



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