

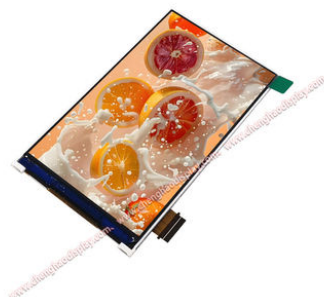
Small Lcd Solutions Wide-temp 4.3 Inch Color Lcm Lcd Display with 480x800 Resolution

Our Product Introduction

for more products please visit us on chenghaolcd.com

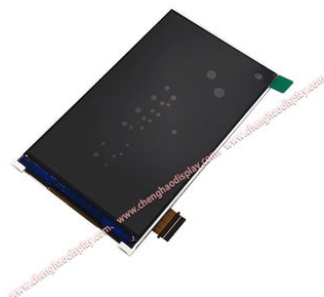
Basic Information

- 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

- Lcd Interface: MCU
- Viewing Area Size: 56.66x94.1 Mm
- Touch Type: No Touch
- Module Type: 4.3" TFT
- Storage Temperature: -30 ~ +80
- Active Area Size: 56.16x93.6 Mm
- Screen Brightness: 300 Cd/m2
- Color: 16M
- Highlight: 4.3 inch LCD display module, wide-temp LCD display 480x800, small color LCM display



More Images





Product Description

Product Description:

The CH430WV23A is a 4.3-inch IPS TFT LCD module designed for high-performance visual display applications. Featuring a resolution of 480×272 pixels, it delivers clear, vivid images with exceptional color accuracy and stability. The IPS technology ensures a wide viewing angle of 80/80/80/80 (U/D/L/R, at CR>10), allowing consistent image quality from any direction—ideal for industrial instruments, smart devices, and embedded systems requiring reliable visibility under varied conditions.

Equipped with *** driver ICs, the CH430WV23A provides excellent compatibility with MCU interfaces, enabling seamless integration into diverse control systems. Its transmissive / negative polarizer mode offers bright and sharp visuals even under strong ambient light, while the LED backlight system delivers balanced luminance up to 300 cd/m² for optimal readability. With a compact active area of 94.10 × 56.16 mm and an overall module thickness of 2.5 mm (max), this display fits perfectly into slim and space-constrained designs.



The CH430WV23A is built to endure harsh environments, with an operating temperature range from -20°C to +70°C and storage temperature from -30°C to +80°C. It complies with RoHS environmental standards, ensuring eco-friendly production and usage. This module's stable electrical characteristics, robust mechanical design, and long lifespan make it suitable for automotive dashboards, handheld terminals, medical equipment, and smart control interfaces.

In summary, the CH430WV23A combines excellent display performance, versatile MCU compatibility, and durable construction—providing a dependable visual solution for modern embedded and industrial display systems.

Features:

High-Resolution Display (480×800 pixels)

The CH430WV23A adopts a 4.3-inch IPS panel with a resolution of 480×800 pixels, delivering sharp and detailed image quality. Its high pixel density ensures smooth graphics and crisp text presentation, making it ideal for devices that require precise visual performance such as handheld instruments, smart control panels, and compact industrial displays.

MCU Parallel Interface Compatibility

Equipped with a full MCU parallel interface, the CH430WV23A provides flexible and efficient data communication with various microcontrollers. This design allows for fast image updates and easy integration into existing electronic systems, reducing development complexity and ensuring stable performance for embedded and industrial applications.

All-Direction Viewing Angle

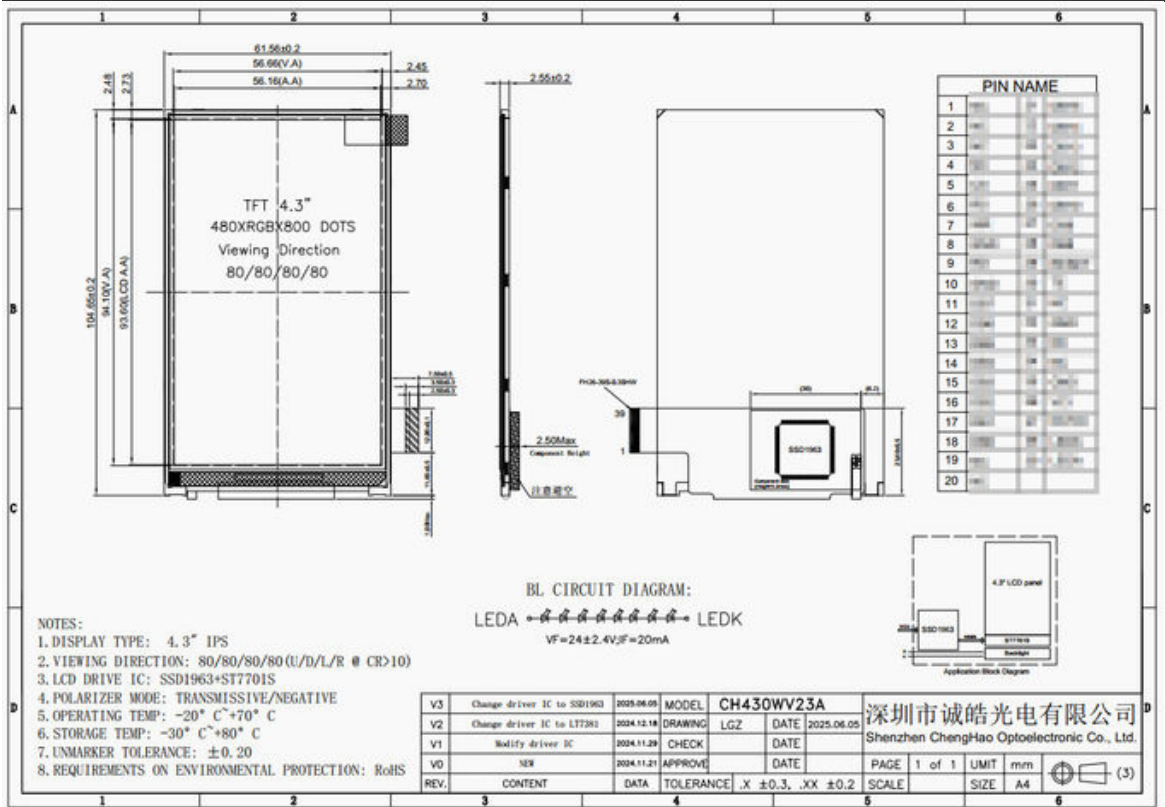
Thanks to IPS technology, the CH430WV23A offers a full viewing angle of 80/80/80/80 (U/D/L/R). This guarantees consistent brightness and accurate color reproduction from any direction, ensuring excellent visual performance even when the display is viewed off-center — a key advantage for public displays, control panels, and mobile devices.

Wide Temperature Range Support

Built for durability, the CH430WV23A supports a wide operating temperature range from -20°C to +70°C, with storage conditions from -30°C to +80°C. This wide temperature tolerance ensures reliable operation in both indoor and outdoor environments, making it suitable for automotive, industrial, and field-use applications.

Technical Parameters:

Module Type	4.3" TFT
Color	16M
Active Area Size	56.16x93.6 mm
LCD Interface	MCU
Contrast	800
Resolution	480x800 Dots
Viewing Area Size	56.66x94.1 mm
Module Size	61.56x104.65x2.55 mm
Screen Brightness	300 Cd/m2
Screen Size	4.3 Inch



Applications:

1. Industrial Control Systems

In the industrial control field, the CH430WV23A is widely used in human-machine interface (HMI) display modules. Its 480×800 high resolution and full-viewing angle ensure operators can clearly read system data from any angle, and its display remains stable even in brightly lit workshops. Supporting a wide operating temperature range of -20°C to +70°C, it can operate reliably and long-term in harsh industrial environments. It is suitable for equipment monitoring panels, automation controllers, and production terminals.

2. Smart Home Devices

In smart home applications, the CH430WV23A is often integrated into wall-mounted control panels, smart thermostats, and security system interfaces. Its compact 4.3-inch size allows for aesthetically pleasing embedded installation, and its vibrant colors enhance the user experience. Its MCU interface enables real-time communication with embedded processors, facilitating intelligent control of lighting, temperature, security systems, and other functions.

3. Medical Devices

In the medical device field, the CH430WV23A is commonly used in portable diagnostic instruments, monitors, and laboratory control systems. Its IPS full-viewing angle technology ensures accurate image colors and stable display, making it ideal for displaying patient data, ECG waveforms, or medical images. Its low power consumption and high environmental adaptability make it safe and reliable in medical environments.

4. IoT Terminals

As a display module for IoT terminals, the CH430WV23A features a compact design and flexible communication with MCUs, making it suitable for use in smart meters, environmental monitoring nodes, and remote control terminals. The display presents real-time data and offers stable performance in both indoor and outdoor environments, making it a key component of sustainable IoT applications.

5. Automotive Applications

In automotive systems, the CH430WV23A is used for instrument cluster displays, multimedia controls, and navigation devices. Its wide operating temperature and anti-glare properties ensure stable operation in both high and low temperatures. IPS technology provides clear all-round visibility, ensuring that drivers and passengers can view information safely and comfortably in all lighting conditions.

FAQ:

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

A: The brand name is Chenghao Optoelectronic.

Q: What is the model number of the Small LCD Touch Screen product?

A: The model number is CH400WV23A.

Q: What certifications does the Small LCD Touch Screen product have?

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

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

A: The minimum order quantity is 100 pieces.

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

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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