



## 4 Inch New Lcd Screen 480\*800 Liquid Crystal Display With Capacitive Touch

### Our Product Introduction

#### Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: RoHS CE、FCC
- Model Number: CH400WV22C-CTB
- 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



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#### Product Specification

- FPC Pin Numbers: 25
- Display Mode: IPS/Transmissive/Normally Black
- Viewing Direction: 85/85/85/85
- Module Type: 3.97" TFT
- Screen Size: 3.97 Inch
- Viewing Area Size: 52.44\*87 Mm
- Screen Brightness: 600 Cd/m<sup>2</sup>
- Storage Temperature: -30 ~ +80



#### More Images



## Product Description

### Product Description:

The CH400WV22C-CTB is a highly advanced 4-inch IPS TFT LCD module from Chenghao Optoelectronic. Designed with precision, this module features a vibrant resolution of 480x800 dots, ensuring that images are displayed with exceptional clarity and color depth. The IPS (In-Plane Switching) technology guarantees wide viewing angles of 85 degrees in all directions, making it an excellent choice for applications where screen orientation varies.

With a brightness of up to 600 cd/m <sup>2</sup> , this module is capable of providing brilliant visuals in diverse lighting conditions, making it suitable for various outdoor and indoor settings. It supports a color palette of 16 million colors, which adds vibrancy and life to any display content. The high contrast ratio of 800 enhances the visual experience, offering deep blacks and bright whites for optimal image quality.	
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The module utilizes a MIPI (Mobile Industry Processor Interface) for its LCD interface, ensuring rapid data transfer and compatibility with modern processing units. The 25-pin FPC (Flexible Printed Circuit) allows for easy integration into different setups. Moreover, the CH400WV22C-CTB is versatile in touch functionality, offering capacitive touch support with the option to customize for resistive touch or no touch interface, catering to a wide range of user preferences.

	Operating efficiently in temperatures ranging from -20°C to +70°C, it caters to both commercial and industrial applications. Its robust design also accommodates customization, including FPC shape, screen brightness, and operating temperature, providing users with tailored solutions to meet specific needs. Additional features such as anti-glare treatment and options for electromagnetic interference protection further enhance this module's usability in demanding environments.
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In summary, the CH400WV22C-CTB LCD module stands out due to its superior performance characteristics and customization capabilities, making it an optimal choice for various applications that require reliable and high-quality display technology.

### Features:

#### LCD Interface Compatibility

The CH400WV22C-CTB is equipped with a MIPI (Mobile Industry Processor Interface) LCD interface, which is known for its high-speed data transfer capabilities. This advanced interface allows for efficient communication between the LCD module and external processors, enabling quick and reliable display responses. MIPI's versatility ensures compatibility with a variety of systems and configurations, promoting seamless integration for diverse applications across different sectors.

#### Temperature Range Support

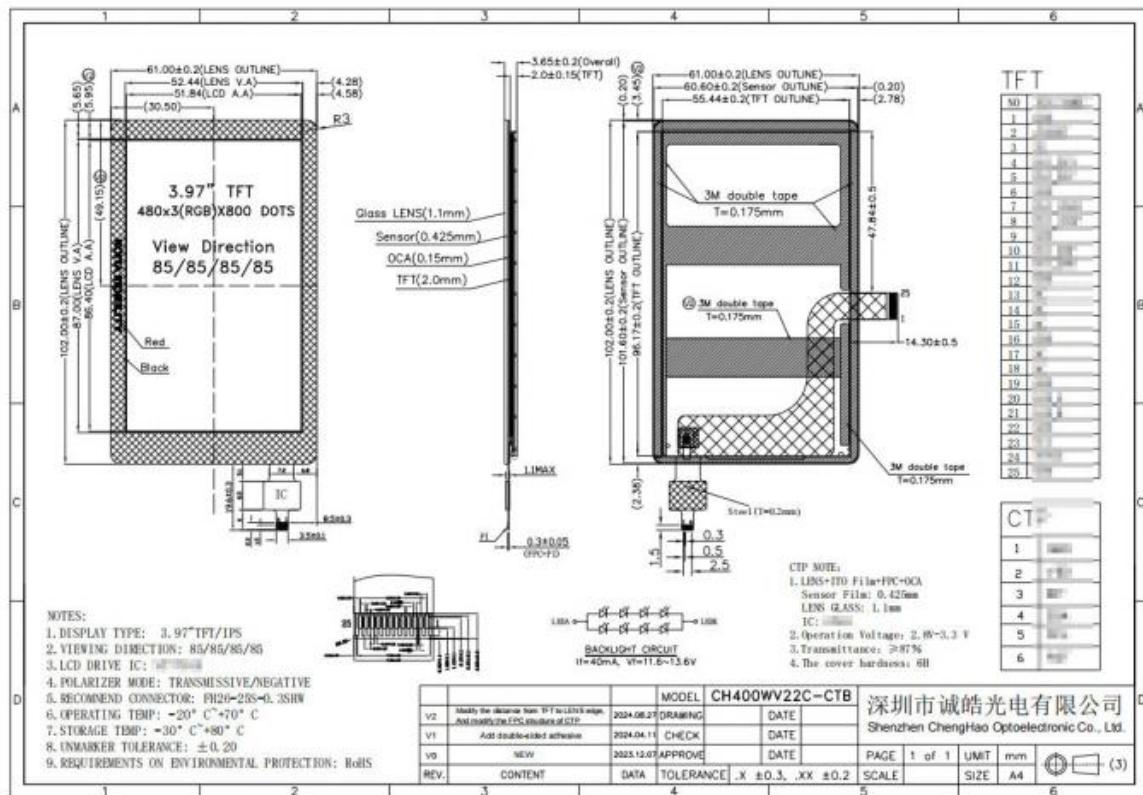
This module operates effectively within a temperature range of -20°C to +70°C, making it suitable for use in environments where standard temperatures may fluctuate. Its ability to function reliably in both high and low-temperature settings ensures its applicability in industrial and commercial conditions. Additionally, for clients with specific needs, custom options for wider temperature ranges can be explored, offering tailored solutions for specialized applications in demanding environments.

### Enhanced Viewing Angles

The CH400WV22C-CTB supports exceptional viewing angles of 85 degrees in all directions. This feature is crucial for applications where the display may be viewed from multiple orientations. The wide viewing angles maintain color consistency and image integrity, allowing users to experience the same quality from different positions. This characteristic enhances the module's usability in collaborative settings, ensuring that all viewers can appreciate the display without loss of clarity or color fidelity.

### Technical Parameters:

Display Mode	IPS / Transmissive / Normally Black
Viewing Area Size	52.44 * 87 mm
Color	16M
FPC Pin Numbers	25
Resolution	480 * 800 Dots
Active Area Size	51.84 * 86.4 mm
Module Size	61 * 102 * 3.65 mm
Screen Size	3.97 Inch
Screen Brightness	600 Cd/m <sup>2</sup>
Viewing Direction	85/85/85/85



### Customization:

The CH400WV22C-CTB TFT LCD module offers extensive customization options to meet the specific needs of various applications. Understanding that different projects may require tailor-made solutions, Chenghao Optoelectronic provides a range of customizable features designed to enhance functionality and integration.

#### FPC Customization

One of the standout options is the customization of the Flexible Printed Circuit (FPC). Clients can choose the shape, structure, and pin number of the FPC to ensure seamless compatibility with their existing systems. This flexibility facilitates integration into diverse devices, helping to streamline production processes and reduce the time needed for assembly.

#### LCD Interface Options

The module supports a variety of LCD interface configurations, allowing clients to select one or more interfaces such as SPI, MCU, RGB, MIPI, LVDS, EDP, and HDMI. This adaptability ensures that the CH400WV22C-CTB can interface effectively with different controllers and devices, catering to distinct operational requirements without compromising performance.

#### Backlight Brightness

Another significant customization option is the ability to adjust the backlight brightness. The standard brightness ranges from 300 cd/m<sup>2</sup> to 1000 cd/m<sup>2</sup>, with certain models capable of reaching up to 1500 cd/m<sup>2</sup>. Clients can specify their preferred brightness level based on environmental factors and intended use, enhancing visibility and readability under varying lighting conditions.

#### **Operating Temperature Customization**

The CH400WV22C-CTB offers clients the ability to customize the operating temperature range to better suit harsh environments. While the standard operational range is -20°C to +70°C, custom options can support temperatures as low as -45°C and as high as +90°C. This adjustment ensures reliable performance in extreme conditions, thus broadening the potential applications of the module.

#### **Glass Cover Personalization**

Clients can also personalize the glass cover, including its shape, thickness, and features like openings or silk screening. Such customization enhances aesthetics while ensuring compatibility with the protective arrangements needed for various settings.

#### **Touch Technology Options**

The module allows for optional touch technology installations, offering the choice between capacitive touch and resistive touch or even no touch. This versatility means that clients can select the best input method for their application, maximizing user interaction and satisfaction.

In summary, the CH400WV22C-CTB's customization capabilities provide a comprehensive approach to meeting diverse application needs. The combination of FPC design, interface options, brightness levels, temperature ranges, glass covers, and touch technologies offers clients the flexibility necessary to create effective and efficient solutions across different industries.

#### **FAQ:**

##### **Q1: What is the model number of the Small LCD Touch Screen?**

A1: The model number of the Small LCD Touch Screen is CH400WV22C-CTB.

##### **Q2: What certifications does this product have?**

A2: The Small LCD Touch Screen is certified with RoHS, CE, and FCC.

##### **Q3: What is the minimum order quantity for this product?**

A3: The minimum order quantity for the Small LCD Touch Screen is 100 pieces.

##### **Q4: How is the product packaged for shipping?**

A4: All products are packed securely to ensure safety. Small-sized products are packed using tray plus carton, while bigger sizes use foam slot plus carton. We also offer customized packaging based on customer requirements.

##### **Q5: What is the typical delivery time for orders?**

A5: The delivery time for the Small LCD Touch Screen is typically between 3 to 7 days.

##### **Q6: What payment terms do you accept?**

A6: We accept TT (Telegraphic Transfer) as the payment method.

##### **Q7: What is your supply capacity for this product?**

A7: Our supply ability is 300,000 pieces per month.



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