Ips Display Supplier 7 Inch Industrial Lcd Screen With High Sensitivity Capacitive Touch
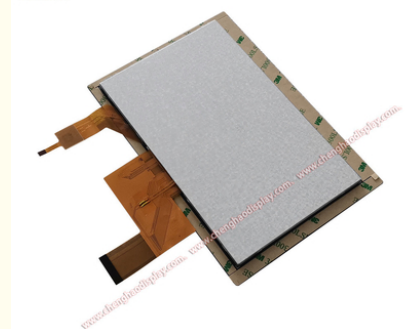
Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH700WV03A-CTBA
- 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: T/T,AliPay,PayPal
- Supply Ability: 50000000 Pcs/month

Product Specification

- Active Area Size: 154.08 * 85.92 Mm
- Lcd Type: 7" TFT + CTP
- Viewing Area Size: 155.28 * 87.12 Mm
- Number Of Dots: 800x480
- Luminance: 300 Cd/m2
- Storage Temperature: -30 ~ +80℃
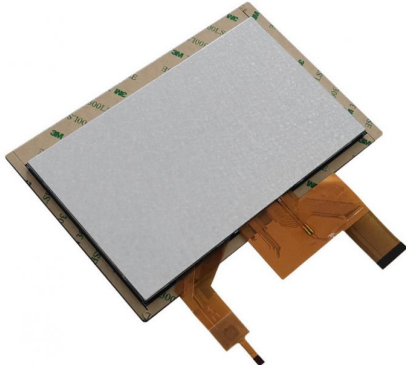- Module Size: 180 * 119 * 5.27 Mm
- Touch Interface: IIC

More Images

Product Description

Product Description:

The CH700WV03A-CTBA is an advanced 7-inch capacitive touch LCD display module designed for a variety of application scenarios. With a resolution of 800x480, the module provides clear and delicate visual effects, suitable for devices that require high-quality image display. Its brightness reaches 300 cd/m², ensuring good visibility under different lighting conditions. The display module has a size of 180mm x 119mm x 5.27mm, and its thin and light design makes it easy to integrate into various electronic devices. The visible area is 164.9mm x 100mm, while the active area is 154.08mm x 85.92mm, which makes the module not only beautiful but also functional. The CH700WV03A-CTBA adopts color-active thin-film transistor (TFT) technology, using amorphous silicon TFT as a switching element to ensure the stability and clarity of the display effect.

In terms of function, the module supports multi-touch and has sensitive touch response capabilities, suitable for various interactive applications. The light transmittance of its touch panel reaches over 87%, providing excellent display effects. The module has a wide operating temperature range and can operate stably between -20°C and +70°C, while its storage temperature can reach -30°C to +80°C, making it suitable for extreme environments.

The interface of CH700WV03A-CTBA adopts RGB format, which is compatible with a variety of systems and easy to integrate. At the same time, the module supports customized services. Customers can adjust the interface, brightness and touch panel design according to specific needs to meet the requirements of different applications. Chenghao Optoelectronics is committed to providing customers with flexible solutions to ensure the successful implementation of each project.

Features:

High resolution: Provides a clear display of 800x480 to ensure perfect details.

2. 7-inch touch screen: Suitable for a variety of devices, easy to integrate and use.

3. Capacitive touch: Supports sensitive multi-touch to enhance user interaction experience.

4. Rich colors: Can display 16.7M colors, providing vivid visual effects.

5. High brightness: The brightness reaches 300 cd/m², adapting to various indoor lighting conditions.

6. Wide temperature performance: The operating temperature range is -20°C to +70°C, adapting to different environments.

7. Light and thin structure: Only 5.27mm thick, convenient for equipment design and installation.

8. High light transmittance: The touch glass transmittance is ≥87%, ensuring good display effects.

9. Strong customization ability: Supports personalized customization of module shape, function and interface to meet specific needs

Technical Parameters:

Lcd Type	7" TFT + CTP
Display Mode	TN/Transmissive/Normally White

Viewing Direction	12 O'clock
Lcd Interface	RGB
Active Area Size	154.08 * 85.92 Mm
Viewing Area Size	155.28 * 87.12 Mm
Number of dots	800x480
Touch Interface	IIC
Touch Type	Capacitive
Luminance	300 Cd/m2

Applications:

CH700WV03A-CTBA is a feature-rich 7-inch capacitive touch LCD display module that is widely used in multiple industries. With its excellent performance and flexible design, it meets the growing market demand. The following are the main application areas of this product:

1. Industrial Automation

In the field of industrial automation, CH700WV03A-CTBA is often used as a human-machine interface (HMI). Its high resolution and reliable touch performance can provide real-time monitoring and equipment control. The module's high temperature resistance and anti-interference characteristics enable it to work stably in complex industrial environments, helping operators to efficiently manage production lines.

2. Smart Home

With the popularization of smart home technology, CH700WV03A-CTBA has become an important part of home control systems. Users can easily manage various smart devices in their homes, such as lighting, air conditioning, and security systems through the touch interface. Its intuitive operation interface and multi-touch function make the user experience smoother and improve the convenience of family life.

3. Medical equipment

In the medical industry, CH700WV03A-CTBA is widely used in various medical equipment, such as portable ultrasound instruments and monitoring equipment. The module's high brightness and excellent temperature adaptability make it outstanding in hospital environments, and it can clearly display important medical data to help medical staff make timely decisions.

4. In-vehicle system

CH700WV03A-CTBA also demonstrates its superior performance in in-vehicle applications, and is often used in navigation systems and infotainment centers. Its high temperature resistance and clear display effect ensure that drivers can obtain reliable information feedback under various driving conditions and improve driving safety.

5. IoT devices

With the development of IoT technology, CH700WV03A-CTBA can connect with various sensors and controllers, display data in real time, and support intelligent decision-making and automated operations. Whether in smart agriculture, smart cities or environmental monitoring, CH700WV03A-CTBA can play an important role in facilitating data visualization and analysis.

6. Consumer Electronics

This module is also widely used in the field of consumer electronics, such as tablets and smartphones. Its thin and light design and high-performance display can meet the market demand for portability and high-quality visual experience, helping manufacturers improve product competitiveness.

7. Instrumentation

In the field of scientific research and environmental monitoring, CH700WV03A-CTBA can be used as a data display screen to provide real-time monitoring and data reading functions. Its high resolution and wide viewing angle design allow users to easily view important data from different angles, suitable for meteorological instruments, laboratory equipment, etc.

8. Entertainment and Media

In the entertainment industry, this module is used for gaming equipment and multimedia displays. Due to its high brightness and color expression, CH700WV03A-CTBA can provide vivid visual effects and enhance the user's immersion.

9. Robotics and Automation Equipment

In robotics and automation equipment, CH700WV03A-CTBA can be used as a control interface to display robot status and operation instructions. Its rugged design and high responsiveness ensure stable operation even in dynamic environments.

Through the above application fields, the CH700WV03A-CTBA display module demonstrates its wide applicability and flexibility, and can meet the needs of different industries for high-quality display solutions. Chenhao Optoelectronics is committed to continuous innovation, promoting the development of various applications, and providing customers with the best quality products and services.

Customization:

CH700WV03A-CTBA is a flexible and versatile 7-inch capacitive touch LCD display module. Chenghao Optoelectronics provides a variety of customized services to meet the needs of different customers. The following are the main customization contents of this product to help customers optimize its functions and performance according to specific application scenarios.

1. Module size and shape customization

The size and shape of CH700WV03A-CTBA can be personalized according to the specific requirements of the customer's device. This flexibility allows the module to perfectly fit a variety of devices to ensure the best visual effects and user experience. Customers can choose different border designs to suit the appearance style of their products.

2. Touch technology customization

CH700WV03A-CTBA supports a variety of touch technologies, and customers can choose the appropriate solution according to their usage needs. In addition to standard capacitive touch, enhanced touch technology can also be selected to improve touch response speed and accuracy. This option is particularly important for applications that require high-frequency touch, such as gaming devices and interactive displays.

3. Backlight brightness adjustment

Customers can customize the backlight brightness according to the lighting conditions of the application environment. The CH700WV03A-CTBA has a wide adjustable brightness range, ensuring optimal visibility under different lighting conditions. This feature enables it to display clearly outdoors or in bright environments.

4. Color and appearance customization

In order to meet brand image or specific design requirements, customers can customize the color and appearance of the module. Whether it is choosing a different shell color or custom printing LOGO, Chenghao Optoelectronics can provide corresponding services to

help customers improve the market recognition of their products.

5. Interface and signal definition

CH700WV03A-CTBA supports a variety of interface types, which customers can customize according to the needs of their system. This includes the type of LCD interface, signal configuration, etc., to ensure seamless connection with existing equipment or newly developed systems, thereby improving the efficiency and stability of integration.

7. Packaging and logistics customization

In terms of product delivery, Chenghao Optoelectronics provides a variety of customized packaging solutions to ensure the safety of products during transportation. At the same time, customers can choose flexible logistics solutions to meet the delivery needs of different markets. Brand information can be printed on the packaging to enhance the market awareness of the product.

Through the above customization, CH700WV03A-CTBA display module demonstrates its excellent adaptability and flexibility, and can meet the diverse needs of different industries and customers. Chenghao Optoelectronics is committed to providing high-quality customization services to help customers gain advantages in the fierce market competition and promote the successful implementation of various projects.

FAQ:

Q: What is the brand name of this TFT LCD Display?
A: The brand name is Chenghao Optoelectronic.
Q: What is the model number of this TFT LCD Display?
A: The model number is CH700WV03A-CTBA.
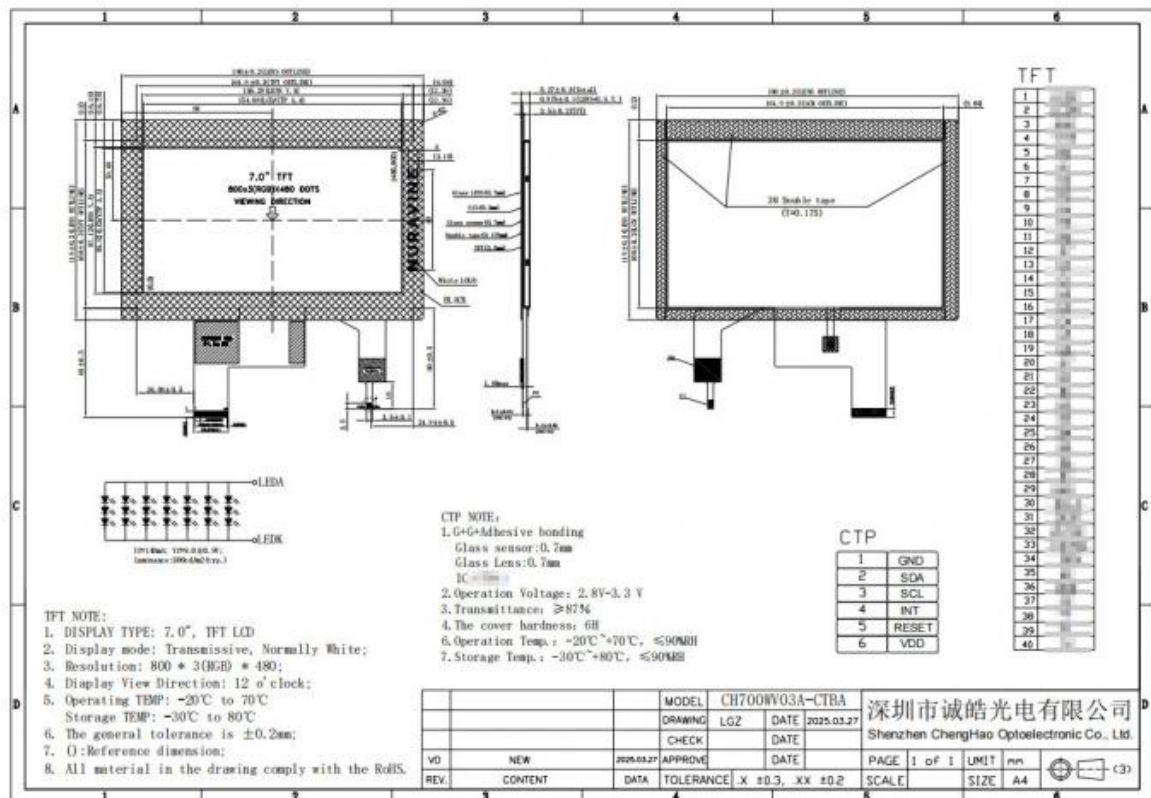**Q: What certifications does this TFT LCD Display have?**
A: This display is certified with CE, ISO9001, Rose, and SGS.
Q: What is the minimum order quantity for this TFT LCD Display?
A: The minimum order quantity is 100 pcs.
Q: What are the payment terms accepted for purchasing this TFT LCD Display?
A: The accepted payment terms are T/T, AliPay, and PayPal.