3 Inch Color Touch Screen Display Panel 800x268 Pixels 25 Pins IPS Tft Lcd Module

Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: RoHS CE FCC
- Model Number: CH300FW02A-CT
- 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

- Touch Panel Type: Capacitive
- Operating Temperature: -20 +70℃
- Resolution: 268*800 Dots
- Lcd Type: 3" TFT + CTP
- Display Mode: IPS/Transmissive/Normally Black
- Viewing Direction: 80/80/80/80
- Screen Brightness: 500 Cd/m2 Luminance
- Lcd Interface: MIPI
- Highlight: **800x268 Pixels Touch Screen Display Panel**, **25 Pins Touch Screen Display Panel** , **3 Inch Touch Screen Display Panel**

More Images

Product Description

Product Description:

The CH300FW02A-CT is a state-of-the-art 3-inch TFT LCD touch screen module designed to meet the diverse needs of modern electronic applications. With its advanced features and robust performance, this module is ideal for a wide range of industries, including medical, industrial, automotive, and consumer electronics.

At the core of the CH300FW02A-CT is its impressive resolution of 268x800 pixels, which delivers sharp and vibrant visuals. This high pixel density ensures that users can view intricate details with clarity, making it an excellent choice for applications where visual precision is paramount. The module utilizes IPS (In-Plane Switching) technology, which enhances color accuracy and provides wide viewing angles. This means that users can enjoy consistent image quality from different perspectives, a crucial factor in devices that require multiple users to view the screen simultaneously.

One of the standout features of the CH300FW02A-CT is its brightness level, rated at 500 cd/m². This high brightness ensures that the display remains visible even in bright lighting conditions, making it suitable for outdoor applications or settings with strong ambient light. Additionally, the capacitive touch panel integrated into the module allows for a smooth and responsive user experience. With a touch glass cover thickness of 1.1 mm and a hardness rating of 6H, the display not only maintains excellent visibility but also offers durability against scratches and impacts, ensuring longevity in various environments.

The CH300FW02A-CT is designed to operate effectively within a wide temperature range of -20 to +70 degrees Celsius. This feature makes it versatile for use in various environments, including industrial settings where temperature fluctuations are common. Furthermore, the module can be stored in conditions ranging from -30 to +80 degrees Celsius, ensuring that it remains functional and reliable even under extreme conditions.

Features:

(1)Compact Size: The CH300FW02A-CT features a compact design, measuring just 34.12 x 88 x 2.98 mm. This small footprint makes it suitable for integration into a variety of devices, including handheld and portable applications.
(2)High Resolution: With a resolution of 268x800 pixels, this module provides clear and detailed images, ensuring that users can view

content with precision and clarity, which is essential for applications requiring high visual fidelity.

(3)IPS Technology: The module utilizes In-Plane Switching (IPS) technology, which enhances color accuracy and provides wide viewing angles. This feature allows users to see consistent colors and brightness from different angles, making it ideal for collaborative environments.

(4)Brightness Level: The CH300FW02A-CT boasts a brightness of 500 cd/m², ensuring that the display remains visible even in bright lighting conditions. This high brightness is particularly beneficial for outdoor applications or environments with strong ambient light.

(5)Capacitive Touch Panel: Equipped with a capacitive touch panel, the module supports multi-touch functionality, allowing for intuitive user interactions. This feature enhances the user experience by enabling gestures such as pinch-to-zoom and swipe.

(6)Durable Touch Glass: The touch glass cover has a thickness of 1.1 mm and a hardness rating of 6H, providing excellent durability against scratches and impacts. This robustness is crucial for devices that may be subjected to rough handling.
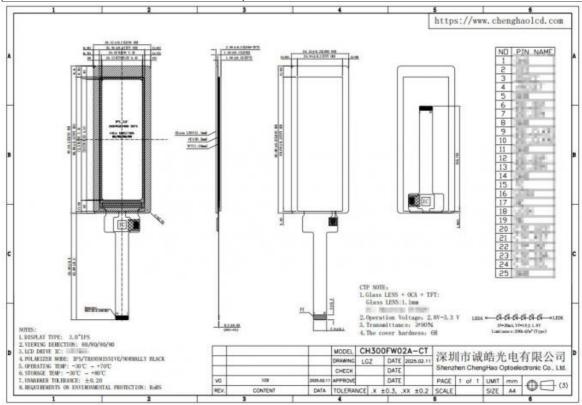
(7)Wide Operating Temperature Range: The CH300FW02A-CT is designed to operate effectively in a temperature range of -20 to +70 degrees Celsius. This wide range makes it suitable for various applications, including those in industrial environments where temperature fluctuations are common.

(8)Storage Temperature Range: The module can be safely stored in conditions ranging from -30 to +80 degrees Celsius, ensuring that it remains functional and reliable even under extreme storage conditions.

(9)MIPI Interface: The CH300FW02A-CT utilizes a MIPI (Mobile Industry Processor Interface) LCD interface, facilitating easy integration with various processors and controllers. This interface is widely used in modern electronics, ensuring compatibility and simplifying the design process.

Technical Parameters:

Touch Panel Type	Capacitive
Lcd Interface	MIPI
Viewing Direction	80/80/80/80
Display Mode	IPS/Transmissive/Normally Black
Storage Temperature	-30 ~ +80
Lcd Type	3" TFT + CTP
Touch Panel Interface	IIC
Screen Brightness	500 Cd/m2 Luminance
Operating Temperature	-20 +70℃
Resolution	268*800 Dots

Applications:

CH300FW02A-CT is a high-performance 3-inch TFT LCD touch screen module, which is widely used in multiple industries due to its excellent technical parameters and versatility. The following are the main application areas of this product:

Medical equipment: In the medical industry, CH300FW02A-CT can be used in a variety of medical equipment, such as portable ultrasound instruments, heart rate monitors, and other diagnostic equipment. Its high resolution and IPS technology ensure clear and accurate visual effects under different lighting conditions, helping medical staff make timely decisions.

Industrial control: This module is widely used in the field of industrial automation and can be integrated into the human-machine interface

(HMI) for monitoring and controlling machine equipment. Its high and low temperature resistance enables it to operate stably in harsh industrial environments, ensuring the reliability and safety of the equipment.

Smart home: CH300FW02A-CT is suitable for smart home devices such as smart control panels, smart lighting systems, and home appliances. Users can easily control home devices through an intuitive touch interface, improving user experience and convenience.

IoT devices: With the development of IoT technology, CH300FW02A-CT can be used in various smart devices, such as smart sensors, surveillance cameras, and smart home control centers. Its high brightness and wide temperature range enable it to work stably in different environments, supporting real-time data monitoring and feedback.

Automotive devices: The module is suitable for in-vehicle infotainment systems, navigation devices, and in-vehicle display panels. Its high brightness and wide viewing angle characteristics ensure that drivers and passengers can clearly view information under different lighting conditions, improving driving safety and convenience.

Consumer electronics: CH300FW02A-CT can be used in a variety of consumer electronics products, such as portable game consoles, digital photo frames, and e-book readers. Its high resolution and touch function enable users to enjoy better visual experience and interactivity when using these devices.

Financial payment equipment: In payment terminal equipment, such as POS machines and self-service terminals, CH300FW02A-CT can provide fast-response touch operations to enhance users' payment experience. Its durability and high brightness ensure that it can work properly in various environments.

Instrumentation: This module is also suitable for various instrumentation equipment, such as data acquisition instruments and test equipment. Its high resolution and accurate color reproduction capabilities enable users to clearly view measurement results and data analysis.

Robotics: With the advancement of robotics, CH300FW02A-CT can be integrated into service robots and industrial robots as an interface for human-machine interaction. Its high response speed and durability enable it to work stably in dynamic environments.

UAV display system: In the field of drones, this module can be used as a display screen for flight control systems, providing real-time flight data and monitoring images to help operators better control the flight of drones.

In summary, CH300FW02A-CT has become an indispensable display solution in various industries with its excellent performance and diverse application scenarios, and can meet the needs of customers in different fields.

Packing and Shipping:

During the packaging and delivery process, the packaging scheme of the CH300FW02A-CT display module has been carefully designed to ensure the safety and integrity of the product during transportation. The following is a detailed description of the packaging and delivery of this product:

Packaging materials: Each module of the CH300FW02A-CT is packaged in a shipping box that meets the export hardness standards. These boxes are not only strong and durable, but also effectively prevent physical damage during transportation. In addition, foam materials will be used to fill the interior to further protect the display module from damage caused by vibration or impact.

Packaging design: In order to improve transportation efficiency, the packaging of the CH300FW02A-CT adopts a "big box in a small box" design. This design allows multiple modules to be safely placed in a large box, while each module is protected by a separate small box to ensure that they will not collide with each other during transportation.

Weight and size restrictions: The weight of each packaging box will not exceed 3.5 kg, which is designed for easy handling and loading and unloading. At the same time, the size of the packaging box will be adjusted according to the standard to adapt to different transportation needs to ensure that it does not take up too much space during transportation.

Use of pallets and wooden frames: When shipping, the goods will be fixed with pallets or wooden frames. This method ensures that the goods remain stable during transportation and prevents damage caused by tilting or movement. This packaging method is especially important in the case of long-distance transportation or multiple handling.

Customized packaging options: If customers have special packaging needs, Chenghao Optoelectronic also provides customized packaging services. According to customer requirements, different packaging methods and specified transportation methods can be designed to meet specific transportation needs and protection requirements. This flexibility allows customers to develop the best logistics plan based on their products and market needs.

Transportation methods: Chenghao Optoelectronic has established long-term cooperative relationships with many logistics companies to ensure that fast and reliable transportation services can be provided. According to customer needs, products can be shipped by air, sea or land. The company will choose the most suitable transportation method based on the urgency of the order and the destination to ensure that the product can be delivered in time.

Pre-shipment inspection: All goods will undergo strict inspection and testing before shipment to ensure that each module meets quality standards and there will be no problems during transportation. This process not only improves the reliability of the product, but also provides additional protection for customers.

Tracking service: After shipment, Chenghao Optoelectronic provides cargo tracking services, and customers can understand the shipping status of their orders in real time. This transparency helps customers better arrange subsequent production and sales plans.

In summary, CH300FW02A-CT has taken a series of effective measures in packaging and shipping to ensure the safety and integrity of the products during transportation. By using high-quality packaging materials, flexible transportation methods and strict inspection processes, Chenghao Optoelectronic is committed to providing customers with high-quality logistics services to ensure that every customer can receive their products with satisfaction.

FAQ:

Q: What is the brand name of this small LCD touch screen?
A: The brand name is Chenghao Optoelectronic.
Q: What is the model number of this small LCD touch screen?
A: The model number is CH300FW02A-CT.
Q: What certifications does this small LCD touch screen have?

A: It has RoHS, CE, and FCC certifications.
Q: What are the payment terms for purchasing this small LCD touch screen?
A: The payment terms are TT (Telegraphic Transfer).
Q: What is the minimum order quantity for this small LCD touch screen?
A: The minimum order quantity is 100 pieces.