



IPS TFT Display Touch Screen 7 Inch 1024x600 Pixels RGB Color Lcd Panel

Our Product Introduction

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Basic Information

- Place of Origin: China Shenzhen
- Brand Name: Chenghao Optoelectronic
- Certification: CE RoHS FCC
- Model Number: CH700WS10E-CTA
- Minimum Order Quantity: No Moq
- 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 or Others
- Supply Ability: 20000000 pcs/month



Product Specification

- Product Name: Display Touch Screen 7 Inch
- Touch Panel Interface: IIC
- Viewing Direction: 80/80/80/80
- Touch Type: Capacitive
- Brightness: 1000 Cd/m2 Luminance
- Operating Temperature: -20 ~ +70°C
- Display Mode: IPS/Transmissive/Normally Black
- Color: 16.7M
- Lcd Interface: RGB
- Highlight: IPS TFT Display Touch Screen ,
1024x600 Pixels TFT Display Touch Screen ,
7 Inch TFT Display Touch Screen



More Images





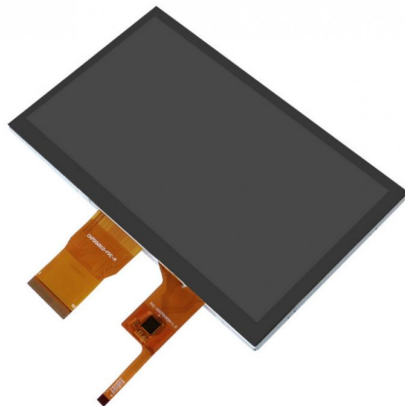

Product Description

Product Description:

CH700WS10E-CTA Display Module

The CH700WS10E-CTA is a 7.0-inch horizontal color TFT LCD module featuring IPS display technology, designed to deliver exceptional visual experiences in various environments.

With a high brightness of 1000cd/m², this module ensures clear and bright images even in bright light conditions. The 160° wide viewing angle design guarantees consistent image quality at different viewing angles, while the full and vivid color performance is ideal for applications with strict visual requirements.

<p>Equipped with an RGB interface and I2C touch interface, the module enables stable data transmission and sensitive touch interaction. The capacitive touch screen, powered by the GT911 chip, offers precise responsiveness and supports multi-touch capabilities, enhancing device usability.</p> <p>The touch glass cover of the module features a composite structure consisting of 0.7mm glass lens and ITO glass, balancing lightness and durability. With a surface protection of 6H hardness, the touch glass cover effectively withstands daily wear and tear.</p>		
<p>The transmittance of the cover is ≥87%, paired with a brightness of 1000cd/m², ensuring natural and transparent images. Furthermore, the touch panel supports a wide voltage input range of 2.8V-3.3V, enhancing compatibility.</p>		
		<p>In terms of performance, the CH700WS10E-CTA operates within a wide temperature range of -20°C to 70°C, making it suitable for stable operation in extreme environments. The extended storage temperature range of -30°C to 80°C demonstrates excellent environmental adaptability. The module is RoHS environmentally certified and compliant with international standards.</p> <p>Whether for industrial control terminals, outdoor display equipment, or medical instruments, the CH700WS10E-CTA offers efficient and stable display solutions with high brightness, wide temperature range, compact design, and reliable performance, catering to diverse market needs.</p>

Features:

7.0-inch IPS Vertical Screen Design: Utilizing IPS technology along with a standard black mode, this display features a high-contrast image quality with precise color reproduction, making it ideal for scenarios with stringent display requirements.

Ultra-high Brightness and Wide Viewing Angle: Boasting a typical brightness of 1000cd/m², it retains excellent visibility even under bright lighting conditions; the 160° full viewing angle design guarantees uniform image display from various perspectives.

Wide Temperature Range Adaptability: Supporting an extensive operating temperature range from -20°C to 70°C, with an extended storage temperature range of -30°C to 80°C, this display is suited for environments with high temperature variations such as outdoor and industrial settings.

Capacitive Touch and Precise Response: The capacitive touch screen features the GT9111 chip enabling multi-touch support, delivering sensitive and accurate operation that elevates the user's interaction experience.

Lightweight and Sturdy Touch Cover: Incorporating a composite design comprising a 0.7mm glass lens and ITO glass, this cover boasts a surface hardness of 6H, making it lightweight and resistant to scratches.

High Transmittance and Energy-saving Design: The touch glass cover exhibits an optical transmittance of $\geq 87\%$, providing a transparent and lifelike image display; the touch panel supports a broad voltage input range of 2.8V-3.3V, ensuring enhanced compatibility and optimized power consumption.

Stable Interface Configuration: Featuring an integrated RGB signal interface and I2C touch control interface, this configuration guarantees reliable data transmission, simplifying device integration and development processes.

Environmental Protection and Reliability: This device has obtained RoHS environmental certification and meets international standards; its compact structure has undergone rigorous testing to assure long-term stability.

Technical Parameters:

Touch Panel Interface IIC

Lcd Type 7" TFT + CTP

Touch Type Capacitive

Operating Temperature $-20 \sim +70^{\circ}\text{C}$

Display Mode IPS/Transmissive/Normally Black

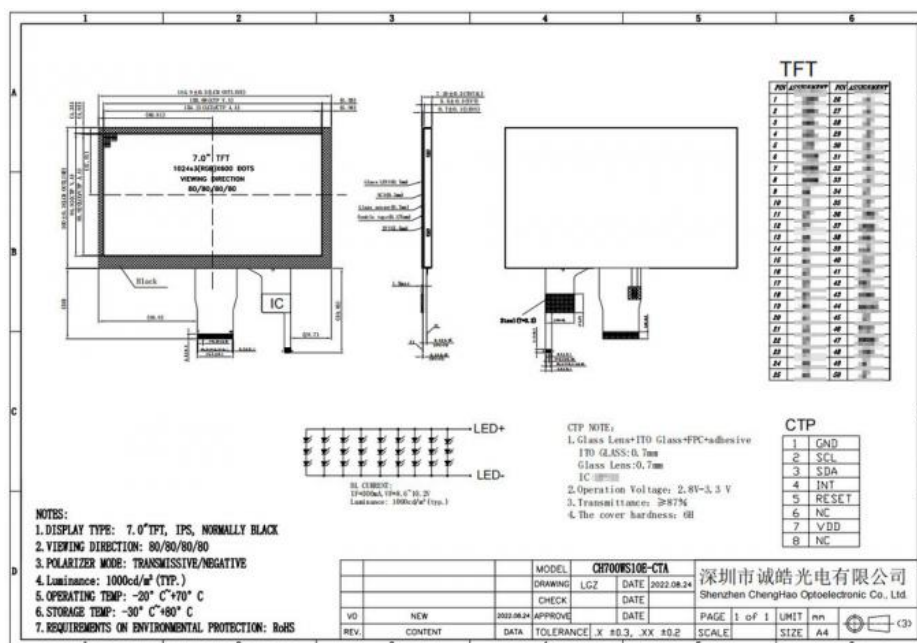
Brightness 1000 Cd/m² Luminance

Storage Temperature $-30 \sim +80^{\circ}\text{C}$

Viewing Direction 80/80/80/80

Resolution 1024*600 Dots

Lcd Interface RGB



Applications:

Agricultural machinery and outdoor equipment

The 1000cd/m² high-brightness display screen of CH700WS10E-CTA can effectively resist strong outdoor light, ensuring that agricultural machinery operators can clearly read equipment parameters (such as seeding amount, fertilization progress, etc.) under direct sunlight. Its wide temperature adaptability from -20°C to 70°C can cope with the drastic temperature changes in the farmland environment, and the sturdy 6H hardness glass surface can resist the erosion of pollutants such as dust and mud, ensuring long-term stable operation under harsh agricultural conditions.

Vehicle and construction machinery control panel

The IPS wide-viewing angle technology of this module allows drivers to easily view vehicle information (such as fuel consumption, tire pressure, navigation route) at different angles, and the vertical screen design is more in line with the operating habits of the vehicle interface. The wide temperature range characteristics enable it to adapt to the high temperature (summer sun exposure) and low temperature (winter cold) of the vehicle environment, while the high brightness and high transmittance ensure that the picture is clearly visible when driving in strong light or at night, improving driving safety.

Fitness and sports equipment consoles

In gyms or outdoor fitness equipment, the capacitive touch screen of CH700WS10E-CTA supports precise touch operation, allowing users to easily adjust exercise modes and view heart rate and other data. The high-brightness screen can maintain clear display under indoor lighting or outdoor sunlight, and the wide temperature performance ensures that the equipment can operate stably in an all-weather environment, meeting the diverse usage scenarios of fitness enthusiasts.

Logistics and warehousing mobile terminals

The handheld terminals in the logistics industry need to frequently scan codes and enter information outdoors. The high-brightness screen of CH700WS10E-CTA can still clearly display cargo information under strong outdoor light, improving scanning efficiency. Its light and thin design and sturdy structure are suitable for long-term handheld operation, and the wide temperature range ensures that the equipment can continue to work in complex environments such as cold storage (low temperature) or transport vehicles (high temperature), improving the reliability of logistics operations.

Smart retail and unmanned cargo containers

In unmanned cargo containers in convenience stores, airports and other places, the module's high resolution and bright colors can vividly display product images and prices to attract customers' attention. The capacitive touch screen supports smooth self-service shopping operations, and the high-brightness screen can clearly present content under different lighting conditions indoors and outdoors. The wide temperature performance ensures that the device can operate stably in an environment with a large temperature difference between day and night, improving the user experience of unmanned retail.

Portable medical monitoring equipment

For mobile medical equipment (such as portable ECG monitors and blood oxygen detectors), the high-brightness screen of the CH700WS10E-CTA can clearly display medical data curves, making it easier for medical staff to quickly identify abnormalities. Its wide temperature adaptability ensures that the device can work stably in scenarios such as ambulances and outdoor diagnosis and treatment, and its compact and lightweight design is suitable for the integration needs of portable medical equipment, improving the flexibility and efficiency of medical services.

Packing and Shipping:

At Chenghao Optoelectronic, we attach great importance to the packaging and shipping process of CH700WS10E-CTA products to ensure that each module can reach customers safely during transportation. The following is our detailed description of packaging and shipping:

Packing standards: All our shipping boxes meet the export hardness standards to provide adequate protection. Foam padding will be used inside each box to prevent the display from being damaged during transportation. This double protection ensures the safety and integrity of the product during transportation.

Packing method: CH700WS10E-CTA is packaged in a "big box in a small box" manner. Each small box contains one or more products, ensuring that less space is wasted during transportation, while also facilitating management and distribution. The weight of each package does not exceed 3.5 kg for easy handling and transportation.

Packaging customization: If customers have specific packaging needs, we can design the packaging according to customer requirements. This includes changing the packaging method and using the customer's specified shipping method to meet the needs of different customers.

Shipping method: We have established long-term cooperative relationships with many express logistics companies and are able to provide a variety of shipping options to ensure timely delivery. Due to our high export volume, these couriers usually provide us with discounts and reduce shipping costs.

Quality Inspection: Before shipping, we conduct strict quality inspection and testing on all products to ensure that each CH700WS10E-CTA module meets our quality standards. Only after passing all inspections will the product be packed and prepared for shipment.

Shipping Documentation: During the shipping process, we provide necessary shipping documents and certifications, such as RoHS and CE certificates, to ensure that the products meet international standards. These documents not only help smooth customs clearance, but also provide customers with additional security.

Customer Communication: Throughout the packaging and shipping process, we maintain communication with customers and promptly update order status and shipping information to ensure that customers can always know when their products will arrive. This transparent communication method enhances customer trust and satisfaction.

In short, the packaging and shipping process of CH700WS10E-CTA is carefully designed to ensure the safety and integrity of the products during transportation. We are committed to providing customers with efficient and reliable services to ensure that every customer can receive their products with satisfaction.

FAQ:

Q: What is the brand name of this TFT LCD Capacitive Touchscreen product?

A: The brand name is Chenghao Optoelectronic.

Q: What is the model number of this TFT LCD Capacitive Touchscreen product?

A: The model number is CH700WS10E-CTA.

Q: Where is this TFT LCD Capacitive Touchscreen product manufactured?

A: This product is manufactured in China, specifically in Shenzhen.

Q: What certifications does this TFT LCD Capacitive Touchscreen product have?

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

Q: What is the minimum order quantity required for this TFT LCD Capacitive Touchscreen product?

A: There is no minimum order quantity (Moq) required for this product.



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