



High Brightness Industrial Touch Screen 7 Inch 1024x600 Color TFT Screen

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: Industrial Touch Screen
- Resolution: 1024*600 Dots
- Lcd Type: 7" TFT + CTP
- Display Mode: IPS/Transmissive/Normally Black
- Color: 16.7M
- Lcd Interface: RGB
- Storage Temperature: -30 ~ +80°C
- Touch Type: Capacitive
- Touch Panel Interface: IIC
- Highlight: 7 Inch Industrial Touch Screen ,
1024x600 Industrial Touch Screen ,
High Brightness Industrial Touch Screen



More Images






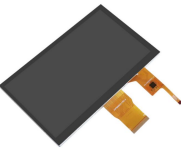
Product Description

Product Description:

CH700WS10E-CTA is a high-performance 7-inch IPS TFT LCD touch screen designed for a variety of applications. With a resolution of 1024x600, the module provides clear and delicate image display, suitable for occasions requiring high visual quality. Its brightness of up to 1000 cd/m² ensures clear visibility even in strong light environments, especially suitable for outdoor applications. The module's display mode is IPS, and it supports wide viewing angles (80/80/80/80), so that the image remains true to color and contrast when viewed from different angles.

CH700WS10E-CTA uses a capacitive touch panel with good touch sensitivity, suitable for various human-computer interaction scenarios. Its operating temperature range is -20°C to +70°C, and its storage temperature range is -30°C to +80°C, ensuring stability and reliability in extreme environments. In addition, the module supports customization, and can adjust the backlight brightness, interface type, etc. according to customer needs to meet the needs of different application fields, such as industrial control, medical equipment, and smart home.

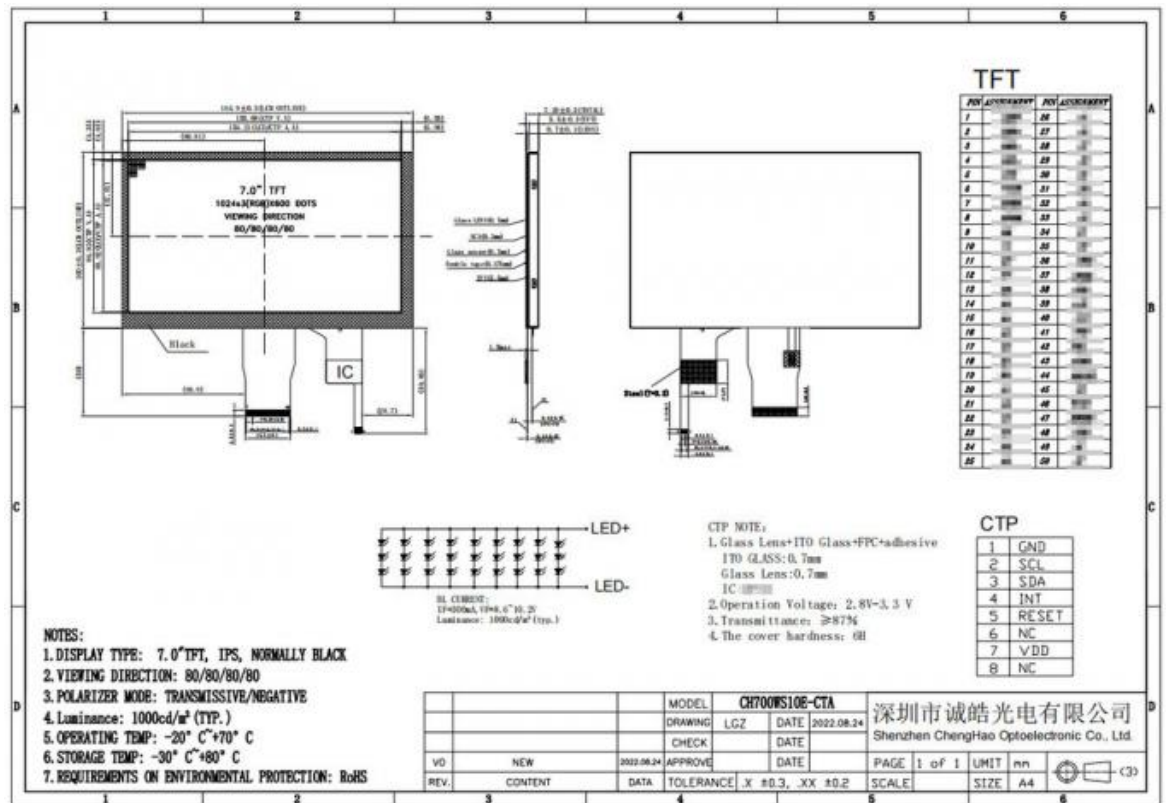
Features:

	<p>(1)7.0-inch IPS Horizontal Screen Design Using IPS technology and normal black mode, it presents high-contrast images with accurate color reproduction, suitable for scenes with strict display requirements.</p> <p>(2)Ultra-high Brightness and Wide Viewing Angle With a typical brightness of 1000cd/m², it remains clearly visible under strong light; the 160° full viewing angle design ensures that the image is uniform when viewed from multiple angles.</p> <p>(3)Wide Temperature Range Adaptability It supports a wide operating temperature range of -20°C to 70°C, and the storage temperature range is extended to -30°C to 80°C, which can adapt to high temperature difference environments such as outdoor and industrial environments.</p> <p>(4)Capacitive Touch and Precise Response The capacitive touch screen equipped with the GT911 chip supports multi-touch, and the operation is sensitive and precise, which enhances the human-computer interaction experience.</p>
	<p>(5)Lightweight and Sturdy Touch Cover It adopts a composite design of 0.7mm glass lens and ITO glass, with a surface hardness of 6H, which is both light and scratch-resistant.</p> <p>(6)High Transmittance and Energy-saving Design The optical transmittance of the touch glass cover is ≥87%, and the picture is transparent and natural; the touch panel supports a wide voltage input of 2.8V-3.3V, with strong compatibility and optimized power consumption.</p> <p>(7)Stable Interface Configuration Integrated RGB signal interface and I2C touch control interface to ensure stable data transmission and facilitate device integration and development.</p> <p>(8)Environmental Protection and Reliability It has passed RoHS environmental certification and complies with international standards; the structure is compact and has been strictly tested to ensure long-term stability.</p>

Technical Parameters:

Display Mode	IPS/Transmissive/Normally Black
Color	16.7M
Touch Panel Interface	IIC
Storage Temperature	-30 ~ +80°C
Brightness	1000 Cd/m ² Luminance
Lcd Type	7"TFT + CTP
Viewing Direction	80/80/80/80
Touch Type	Capacitive

Lcd Interface	RGB
Operating Temperature	-20 ~ +70°C



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.

Customization:

CH700WS10E-CTA is a flexible 7-inch IPS TFT LCD touch screen that offers a variety of customization options to meet the needs of different customers. The following are the main customization contents of this product:

FPC design customization: We can redesign the shape and structure of the flexible printed circuit board (FPC) according to the specific project needs of customers. This option ensures that the display module can perfectly fit the customer's equipment and improve overall performance and reliability.

Backlight brightness adjustment: The standard backlight brightness of CH700WS10E-CTA is 1000 cd/m², but we can adjust it according to the customer's application needs. Customers can choose higher brightness options to ensure readability in direct sunlight or other high-light environments, which is especially important for outdoor devices.

Interface type customization: The module supports a variety of interface types, including RGB, I2C, etc. We can define the interface type according to the specific requirements of customers to ensure compatibility with existing systems and enhance the flexibility and applicability of the module.

Touch panel solution: For applications that require user interaction, we provide capacitive and resistive touch panel options. Capacitive touch solutions can be designed according to customer needs, including glass thickness, hardness and shape, to ensure the best touch experience in different environments.

Functional customization: CH700WS10E-CTA can also be customized according to the customer's actual application scenarios. This includes adding anti-glare coating, enhancing sunlight readability, extending the operating temperature range, etc. These customization options ensure that the module can operate stably under various environmental conditions.

Packaging customization: We can design packaging according to customer requirements to meet specific shipping needs or brand display. This includes changing packaging materials and methods to ensure the safety and integrity of the product during transportation.

Transportation mode adjustment: In order to meet the logistics needs of customers, we can choose different transportation methods according to customer requirements. This flexibility ensures that the product can be delivered to customers in a timely and safe manner.

With the above customization options, CH700WS10E-CTA is able to provide customers with tailor-made solutions to meet the needs of different industries and applications. We are committed to working closely with customers to ensure that each product can perfectly adapt to their specific application scenarios.

FAQ:

Q: What is the brand name of this product?

A: The brand name of this product is Chenghao Optoelectronic.

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

A: The model number of this product is CH700WS10E-CTA.

Q: Where is this product manufactured?

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

Q: What certifications does this product have?

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

Q: What is the minimum order quantity for this product?

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



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