7 Inch Liquid Crystal Display Screen 1024x600 Pixels With High Sensitivity Capacitive Touch

Basic Information

• Brand Name:

6

- Certification: CE 、 RoHS、 FCC
- Model Number:
- Minimum Order Quantity:
- 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

Chenghao Optoelectronic

CH700WS02A-CTA

100 Pcs

- Delivery Time: 3~7 Days
- Payment Terms: TT Or Others
- Supply Ability: 5000000 Pcs/month



Product Specification

Highlight:	7 inch LCD display screen, high sensitivity capacitive touch screen,
Number Of Dots:	1024*3(RGB)*600
Module Size:	164.9*100*5.287 Mm
Viewing Direction:	80/80/80/80
• Viewing Area Size:	155.08*86.92 Mm
Color:	16 M
 Display Type: 	7" TFT + CTP
Display Mode:	IPS/Transmissive/Normally Black
Contrast:	80/80/80/80

1024x600 resolution LCD module



More Images





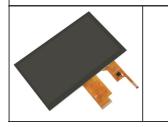
Product Description

Product Description:

The CH700WS02A-CTA is a high-performance 7-inch TFT LCD display module designed to meet the diverse needs of various applications. Manufactured by Chenghao Optoelectronic, this module features a resolution of 1024x600 pixels, providing clear and vibrant visuals that are essential for modern display requirements. With an IPS display mode, it ensures wide viewing angles of 80 degrees in all directions, making it ideal for installations where multiple viewers may be present.

The module has a compact size of 164.9 mm x 100 mm x 5.28 mm and a viewing area of 155.08 mm x 86.92 mm, which is ideal for integration into space-constrained environments such as industrial control panels, medical equipment and smart home applications. The display backlight brightness is a standard brightness of 300 cd/m², which can meet the basic needs of normal use in indoor environments, while the display capability of 16 million colors enhances the richness of the displayed content.





Equipped with a capacitive touch panel, the CH700WS02A-CTA supports intuitive user interaction, making it perfect for applications that require touch input. The touch panel operates at a voltage range of 2.8V to 3.3V and features a high transmittance of over 87%, ensuring that touch sensitivity is maintained without compromising display quality.

Features:

Display Size: The module features a compact 7-inch-display, making it suitable for a variety of space-constrained applications.-----Resolution: With a resolution of up to 1024x600 pixels, the display provides sharp images and enhanced visual clarity. IPS Technology: With IPS (In-Plane Switching) technology, the display provides a wide 80-degree viewing angle in all directions, ensuring consistent color and contrast from different angles.

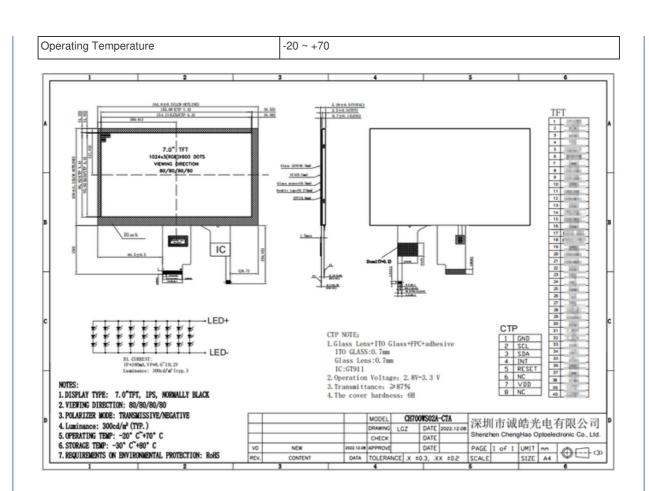
Brightness: The module has a brightness of 300 cd/m², which can meet normal usage requirements in indoor environments. Color Depth: With a color capability of 16 million colors, the module provides vivid and rich visual effects, making it ideal for applications that require high-quality images.

Touch Screen: The CH700WS02A-CTA is equipped with a capacitive touch screen for intuitive user interaction and fast response. Touch Screen Specifications: The touch screen operates in the voltage range of 2.8V to 3.3V, with a transmittance of up to \geq 87%, ensuring effective touch sensitivity without compromising display performance.

Operating Temperature: The module can operate effectively in a wide temperature range of -20 to +70 degrees Celsius, suitable for a variety of environmental conditions.

Technical Parameters:

Contrast	80/80/80
Display Mode	IPS/Transmissive/Normally Black
Module Size	164.9*100*5.287 mm
Number of Dots	1024*3(RGB)*600
Color	16 M
Active Area Size	154.21*85.92 mm
Storage Temperature	-30 ~ +80
Display Type	7" TFT + CTP
Viewing Direction	80/80/80



Applications:

The CH700WS02A-CTA display module is designed to cater to a wide range of applications across various industries, thanks to its versatile features and robust performance. One of the primary sectors where this module excels is industrial control. Its compact size and high-resolution display make it ideal for use in control panels and monitoring systems, allowing operators to visualize data clearly and interact with machinery efficiently.

In the medical equipment sector, the CH700WS02A-CTA can be integrated into devices such as patient monitors, diagnostic equipment, and portable medical devices. The module's IPS technology ensures that medical professionals can view critical information from multiple angles without any loss of clarity, which is essential in fast-paced medical environments.

The smart home industry also benefits from this display module. It can be used in smart home control panels, allowing users to manage various home automation systems, such as lighting, security, and HVAC systems. The capacitive touch panel enhances user interaction, providing a seamless experience for homeowners.

In the realm of instrumentation, the CH700WS02A-CTA is well-suited for devices that require precise data visualization, such as laboratory instruments and environmental monitoring systems. Its ability to operate in a wide temperature range makes it reliable for outdoor applications as well.

The module is also applicable in the Internet of Things (IoT) devices, where it can serve as a user interface for smart devices, enabling users to interact with their connected environments effectively. Its customization options allow manufacturers to tailor the display to specific IoT applications, enhancing functionality and user experience.

Lastly, the automotive industry can leverage the CH700WS02A-CTA for vehicle-mounted applications, such as dashboard displays and infotainment systems. The module's high brightness and durability make it suitable for use in vehicles, where visibility and reliability are paramount.

Overall, the CH700WS02A-CTA's adaptability across these diverse sectors underscores its value as a versatile display solution, capable of meeting the specific needs of various applications.

Customization:

The CH700WS02A-CTA display module offers a range of customization options to meet the specific needs of various projects and applications. Chenghao Optoelectronic understands that different industries may require unique features and specifications, and thus provides flexibility in modifying the display module to ensure optimal performance in diverse environments.

One of the primary customization options available is the modification of the FPC (Flexible Printed Circuit) shape and structure. This allows clients to adapt the module for specific mounting requirements or to fit into unique device designs, ensuring seamless integration into existing systems.

Another significant aspect of customization is the ability to adjust the backlight brightness. Depending on the application, customers may require different brightness levels to enhance visibility in various lighting conditions. This feature is particularly beneficial for outdoor applications where sunlight readability is crucial.

The LCD interface can also be defined according to customer specifications. This flexibility enables the CH700WS02A-CTA to be compatible with a wide range of control systems and devices, making it easier for manufacturers to incorporate the display into their products.

In addition to these modifications, Chenghao Optoelectronic offers the option to design customized touch panels. Clients can specify the touch panel's characteristics, such as sensitivity and size, to better suit their user interface requirements. This is particularly important in applications where user interaction is a key component, such as in medical devices and smart home systems.

Furthermore, the company can accommodate requests for specific operating temperature ranges or storage conditions, ensuring that the display module performs reliably in various environmental settings. This is essential for industries like automotive and industrial control, where devices may be exposed to extreme temperatures.

FAQ:

- Q: What is the brand name of the LCD Display Module?
- A: The brand name of the LCD Display Module is Chenghao Optoelectronic.
- Q: What is the model number of the LCD Display Module?
- A: The model number of the LCD Display Module is CH700WS02A-CTA.
- Q: What certifications does the LCD Display Module have?
- A: The LCD Display Module is certified with CE, RoHS, and FCC.
- Q: What is the minimum order quantity for the LCD Display Module?
- A: The minimum order quantity for the LCD Display Module is 100 pieces.
- Q: What are the packaging details for the LCD Display Module?

A: All the products are packed in the right way to keep them safe. For small sizes of products, we use tray + carton, and for bigger sizes, we use foam slot + carton. We also design packages according to customers' requirements.

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