

Custom Design Lcd Tft 7 Inch 800x1280 Ips Screen With Capacitive Touch

Our Product Introduction

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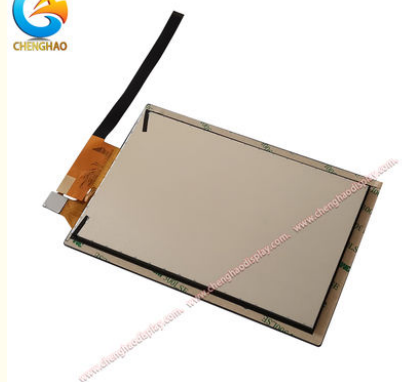
Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH700WX09A-CTA
- 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

- Touch Interface: IIC
- Lcd Interface: MIPI
- Module Type: 7" TFT+CTP
- Contrast: 800:1
- Viewing Direction: 85/85/85/85
- Brightness: 300 Cd/m2
- Touch Type: Capacitive
- Operating Temperature: -20 ~ +70
- Highlight: 7 inch IPS LCD touchscreen, 800x1280 capacitive touch display, custom TFT LCD screen with touch



More Images





Product Description

Product Description:

The CH700WX09A-CTA is a 7-inch TFT LCD module featuring an IPS (In-Plane Switching) display with a resolution of 800x1280 pixels, designed to deliver clear and vibrant visuals with wide viewing angles of 85 degrees in all directions. This module adopts a transmissive, normally black display mode, which enhances contrast and color reproduction, making it suitable for various applications requiring reliable and consistent image quality. The screen brightness is rated at 300 cd/m², providing adequate visibility in typical indoor lighting conditions. The color depth supports 16 million colors, allowing for rich and detailed image rendering.



Equipped with a capacitive touch panel and an IIC touch interface, the CH700WX09A-CTA supports responsive and accurate multi-touch input, ideal for interactive devices. The module's compact dimensions measure 171.22 mm by 114.7 mm by 5.25 mm, with an active viewing area of 150.72 mm by 94.2 mm, making it suitable for integration into medium-sized equipment where space constraints exist.

The display interface uses MIPI, a common standard for high-speed data transmission between the display and the host processor, ensuring compatibility with modern embedded systems. Operating temperature ranges from -20°C to +70°C, and storage temperature ranges from -30°C to +80°C, allowing the module to function reliably in a variety of environmental conditions.

This module is widely applicable across industries such as industrial control systems, medical devices, smart home appliances, and automotive displays, where high-quality visuals and touch responsiveness are essential. Its IPS technology ensures consistent color and brightness regardless of viewing angle, which is critical for user interfaces that require clear visibility from different perspectives.

Furthermore, Chenghao Optoelectronic offers customization options for this module, including adjustments to backlight brightness, interface types, touch panel installation, and operating temperature ranges, enabling customers to tailor the product to specific project requirements.



In summary, the CH700WX09A-CTA combines a high-resolution IPS display with capacitive touch functionality in a compact form factor, making it a versatile solution for a wide range of interactive display applications.

Features:

Module Dimensions

The CH700WX09A-CTA module measures 171.22 mm in length, 114.7 mm in width, and has a slim profile with a thickness of 5.25 mm. These compact dimensions make it suitable for integration into devices where space optimization is critical, such as portable medical instruments or handheld industrial controllers. The manageable size ensures ease of installation without compromising display area.

LCD Interface Type

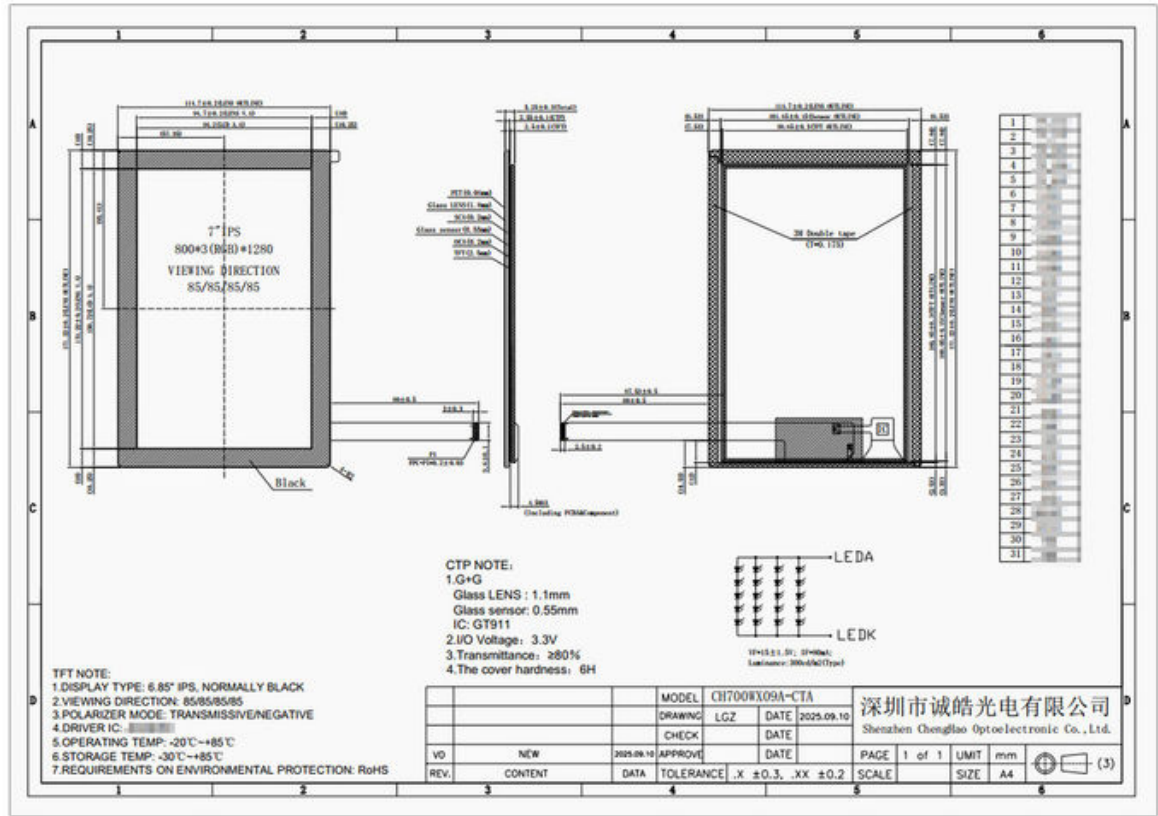
This module utilizes the MIPI interface, a widely adopted standard in modern display technology. MIPI (Mobile Industry Processor Interface) supports high-speed data transmission between the display and the host processor, enabling efficient communication and reducing power consumption. This interface choice enhances compatibility with a variety of embedded systems and mobile devices, facilitating seamless integration and improved performance.

Operating Temperature Range

The CH700WX09A-CTA supports an operating temperature range from -20°C to +70°C, which allows it to function reliably in moderately harsh environments. While it does not cover extreme wide temperature ranges, this specification is adequate for most indoor and semi-outdoor applications, including industrial control panels and smart home devices. The module also supports storage temperatures from -30°C to +80°C, ensuring durability during transportation and storage

Technical Parameters:

Display Mode	IPS/Transmissive/Normally Black
Viewing Direction	85/85/85/85
Touch Type	Capacitive
Storage Temperature	-30 ~ +80
Module Type	7" TFT+CTP
Number of dots	800x3(RGB)x1280
Touch Interface	IIC
Brightness	300 Cd/m2
Operating Temperature	-20 ~ +70
Viewing Area Size	151.22x94.7 Mm



Applications:

The CH700WX09A-CTA 7-inch IPS TFT LCD module finds versatile applications across several industries due to its reliable display performance and touch capabilities.

Industrial Control

In industrial control systems, the CH700WX09A-CTA is commonly integrated into human-machine interfaces (HMIs) for monitoring and managing machinery operations. Its clear display and capacitive touch enable operators to interact with control panels efficiently, even in environments where precise input and readability are essential. The module's robust operating temperature range supports stable performance in factory settings where temperature fluctuations may occur.

Smart Home

Within smart home devices, this display module is used in smart appliances such as intelligent coffee machines and smart refrigerators. The high resolution and responsive touch interface allow users to easily navigate settings and monitor device status. The module's IPS technology ensures consistent viewing angles, making it convenient for multiple users to interact with the device from different positions.

Medical Equipment

The CH700WX09A-CTA is also suitable for medical devices like fingertip pulse meters and heart rate monitors. Its accurate touch response and clear display help healthcare professionals and patients to read vital information quickly and operate the device with ease. The module's ability to function reliably within a wide temperature range ensures consistent performance in clinical environments.

Vehicle-Mounted Applications

In automotive applications, this module can be found in vehicle central control displays and navigation systems. Its bright screen and wide viewing angles provide drivers and passengers with clear information regardless of lighting conditions or seating position. The capacitive touch panel supports intuitive control of infotainment and vehicle settings, enhancing user experience on the road.

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 CH700WX09A-CTA.

Q: Where is this TFT LCD Display manufactured?

A: It is manufactured in China, Shenzhen.

Q: What certifications does this TFT LCD Display have?

A: It holds certifications such as CE, ISO9001, RoHS, and SGS.

Q: What are the accepted payment terms for purchasing this TFT LCD Display?

A: The accepted payment terms are T/T, AliPay, and PayPal.



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