

Custom Display Manufacturers 1280x800 7 Inch Ips Tft Lcd RoHS certification

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



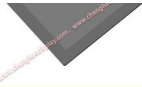
Product Specification

- Viewing Area Size: 151.22x94.7 Mm
- Lcd Interface: MIPI
- Touch Interface: IIC
- Display Mode: IPS/Transmissive/Normally Black
- Brightness: 300 Cd/m2
- Module Type: 7" TFT+CTP
- Contrast: 800:1
- Operating Temperature: -20 ~ +70
- Highlight: 7 inch IPS TFT LCD display , 1280x800 resolution LCD module, RoHS certified TFT display



More Images



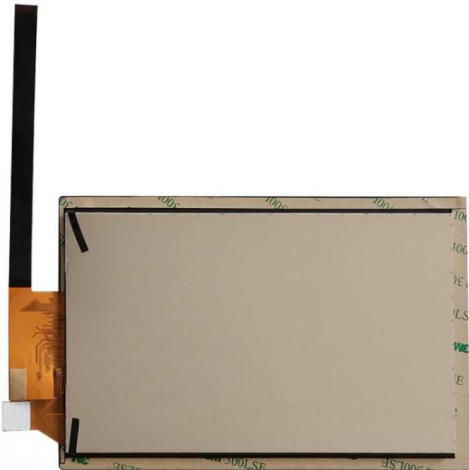


Product Description

Product Description:

CH700WX09A-CTA is a 7-inch IPS TFT LCD module with an integrated capacitive touch panel, designed for compact human-machine interfaces that require dependable image quality and smooth touch interaction. It features an 800×1280 pixel layout, offering crisp text rendering and clear graphics for both portrait and landscape mounting. With a transmissive, normally black IPS cell, the display delivers stable color and contrast across a wide 85/85/85/85 viewing direction, suitable for multi-angle usage scenarios. A 300 cd/m2 backlight, 16M color depth, and 800:1 contrast ratio balance readability and power consumption for indoor environments and shaded light conditions.

The module adopts a MIPI interface via a 31-pin FPC, simplifying integration with common application processors. The capacitive touch panel communicates over I2C (IIC), enabling responsive gestures and precise touch detection in compact systems. Mechanical dimensions are 171.22 × 114.7 × 5.25 mm, with a viewing area of 151.22 × 94.7 mm and an active area of 150.72 × 94.2 mm—useful for enclosure design and bezel alignment. Engineered for reliability, the operating temperature range is -20 to +70°C and storage is -30 to +80°C, supporting year-round deployment in a variety of ambient conditions.



This 7-inch module fits a broad spectrum of embedded applications, including industrial control terminals, smart home wall panels, medical carts and handhelds, vehicle-mounted interfaces, instrumentation, AI and IoT edge devices—where full viewing angles, dependable touch, and space-efficient integration are essential. As a professional display manufacturer, Chenghao Optoelectronic can also provide tailored display solutions for such scenarios based on project requirements.

To streamline design-in, customization is available for key elements such as FPC shape and structure, backlight brightness adjustment, LCD interface definition, and touch panel design. These options help align the module with specific electrical, mechanical, and optical needs, reducing secondary development and speeding time to market. Whether you are building a compact HMI, a connected controller, or a portable diagnostic device, CH700WX09A-CTA provides a balanced combination of image clarity, interface flexibility, and environmental robustness for consistent performance in daily operation.

Features:

800×1280 Resolution (7-inch)

The 800×1280 pixel matrix delivers fine detail for icons, charts, and dense UI layouts, helping keep small fonts legible and images clean in both portrait and landscape designs. This resolution supports modern app layouts with clear line work and smooth gradients, making it suitable for compact HMIs and portable controllers.

MIPI LCD Interface (31-pin FPC)

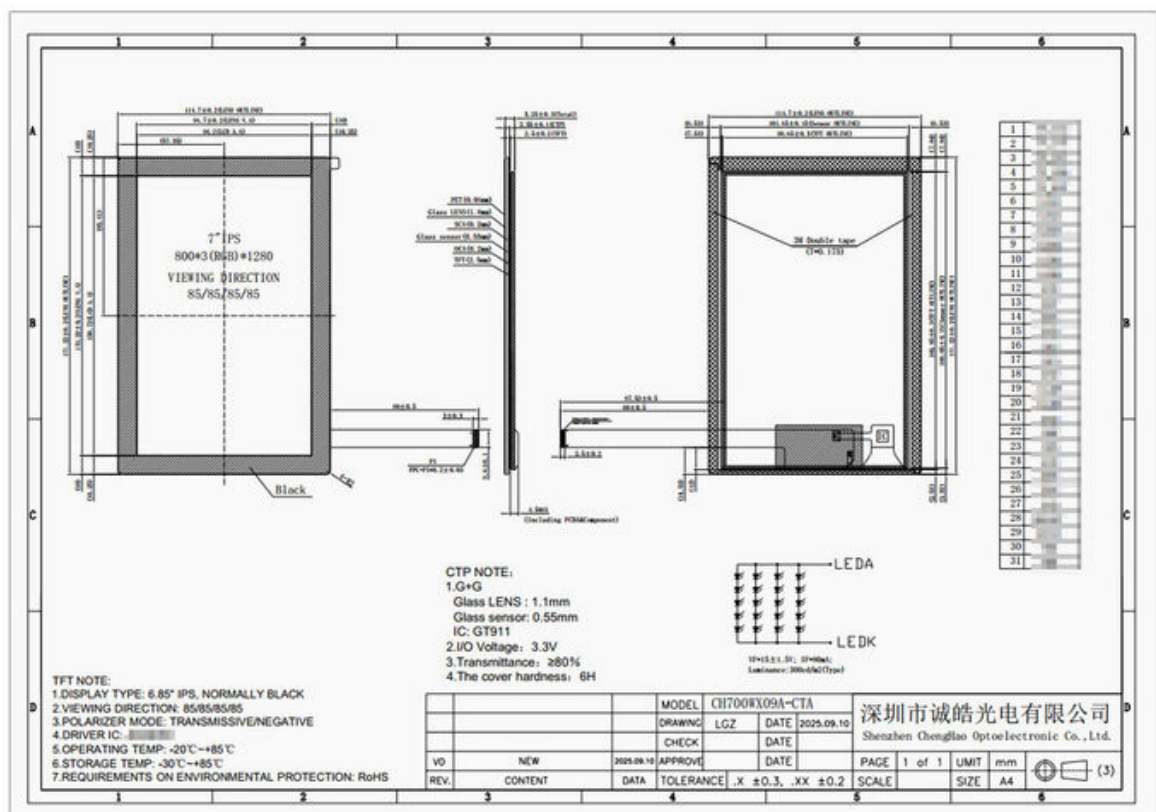
A MIPI high-speed serial interface reduces signal count and simplifies PCB routing compared with parallel buses, helping minimize EMI

The integrated capacitive touch panel communicates via I2C, offering low pin usage and easy firmware bring-up. It enables responsive, precise touch control for gesture-based interfaces while keeping the host interface simple, which is valuable for space-constrained embedded designs and modular product platforms.

The module operates reliably from -20 to +70°C, supporting year-round use in indoor industrial areas, semi-outdoor kiosks, and equipment rooms with variable ambient conditions. This range helps maintain consistent touch response and image stability without additional thermal control in many deployments.

Technical Parameters:

Operating Temperature	-20 ~ +70
Display Mode	IPS/Transmissive/Normally Black
Viewing Direction	85/85/85/85
Touch Type	Capacitive
Lcd Interface	MIPI
Contrast	800:1
Active Area	150.72x94.2 Mm
Module Size	171.22x114.7x5.25 Mm
Touch Interface	IIC
Module Type	7" TFT+CTP



Customization:

The CH700WX09A-CTA 7-inch 1280x800 IPS TFT LCD module with capacitive touchscreen offers customization services designed to meet diverse customer needs through a comprehensive and flexible process. As a professional LCD manufacturer, Chenghao Optoelectronics provides customized solutions to enhance module compatibility and performance in a variety of applications. The customization process typically begins with understanding the customer's specific needs, including environmental conditions, interface preferences, and mechanical constraints. Key customization options for this product include:

(1) **FPC Customization:** The FPC's shape, structure, and pin count can be customized based on device layout and connectivity requirements, enabling seamless integration with the customer's hardware design.

(2) LCD Interface Options: Supports a variety of interfaces, including SPI, MCU, RGB, MIPI (default), LVDS, EDP, and HDMI. Customers can select or combine interfaces based on their system architecture and data transmission requirements.

(3) Backlight Brightness Adjustment: Standard brightness is approximately 300 cd/m², adjustable from 300 to 1000 cd/m², with select models reaching up to 2800 cd/m² to accommodate varying lighting conditions.

(4) Operating Temperature Range: Customizable from -10°C to +60°C for moderate environments or -45°C to +90°C for extreme environments, meeting diverse usage scenarios.

(5) Glass Cover Customization: Supports customization of glass shape, thickness, aperture, and silkscreen printing to meet both aesthetic and functional requirements, including enhanced durability or a customized touch experience.

(6) Touch Panel Installation: Optional capacitive or resistive touch screens are available to meet varying sensitivity and cost requirements.

(7) Additional Features: Optional anti-glare coating reduces reflections for enhanced readability, and anti-EMI treatment ensures stable performance in electromagnetic environments.

The customization process emphasizes close collaboration between customers and Chenghao Optoelectronic's engineering team, from requirements analysis, sample development, testing, and final production, ensuring products fully meet customer specifications and requirements.

In summary, the CH700WX09A-CTA module's customization capabilities provide customers with a flexible platform for creating display solutions tailored to specific application needs, enhancing user experience and optimizing device integration.

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

Q: What certifications does this TFT LCD Display have?

A: This product is certified with CE, ISO9001, RoHS, and SGS.

Q: What is the minimum order quantity for this TFT LCD Display?

A: The minimum order quantity is 100 pieces.



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