12 Inch Lcd Panel 1000cd/m2 Backlight 1920*1080 Full HD Resolution With **Capacitive Touch**

Basic Information

• Brand Name: Chenghao Optoelectronic

CE RoHS FCC · Certification: Model Number: CH120FH01A-CT

• 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

• Storage Temperature: -30 ~ +80 °C

• Viewing Direction: 80/80/80/80

• LCD Interface: EDP • Touch Panel Interface: I2C

• Display Mode: IPS /transmissive/ Normally Black

1000 Cd/m2 • Brightness: • Touch Glass Cover 1.1 Mm

Thickness:

· Resolution: 1920x1080 Dots



More Images



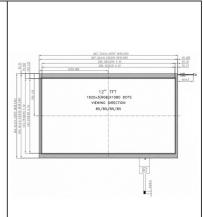
Product Description

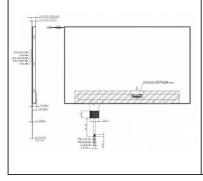
Product Description:

The CH120FH01A-CT is a premium 12-inch IPS TFT LCD touch screen module designed to deliver exceptional visual performance and user interaction capabilities. With a resolution of 1920 x 1080 pixels, this module provides sharp and vibrant images, making it ideal for a variety of applications, including industrial control, medical devices, and consumer electronics.

This display features advanced IPS technology, which ensures wide viewing angles of 80 degrees in all directions, allowing users to enjoy consistent color and brightness from different perspectives . The high brightness level of 1000 cd/m² enhances visibility, even in brightly lit environments, making it suitable for outdoor use and applications that require clear readability under various lighting conditions

The CH120FH01A-CT is equipped with a capacitive touch panel that supports multitouch functionality, providing an intuitive user experience. The touch glass cover, with a thickness of 1.1 mm and a hardness rating of 6H, ensures durability and resistance to scratches, making it suitable for frequent use in demanding environments.





Designed to operate effectively in a temperature range of -20°C to +70°C, this module is resilient in various conditions, including industrial settings. Furthermore, its compact dimensions of 267.72 mm x 164.42 mm x 8.4 mm make it easy to integrate into a wide range of devices without compromising on screen space. In summary, the CH120FH01A-CT is a versatile and high-performance display solution that combines advanced technology with robust design, making it an excellent choice for modern applications across multiple industries.

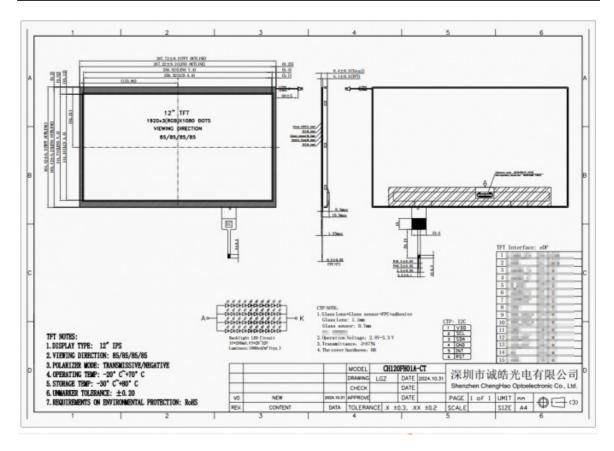
Features:

- (1) Full HD Display: The CH120FH01A-CT features a full HD resolution of 1920 x 1080 pixels, providing clear and detailed images suitable for a variety of applications .
- (2) IPS Technology: This module utilizes In-Plane Switching (IPS) technology, which allows for wide viewing angles of 80 degrees in all directions, ensuring consistent color and brightness from various perspectives.
- (3) High Brightness: With a brightness level of 1000 cd/m², the display is designed for excellent visibility, even in bright environments, making it ideal for outdoor and well-lit applications.
- (4) Capacitive Touch Panel: The CH120FH01A-CT is equipped with a capacitive touch panel that supports multi-touch functionality, enhancing user interaction and making navigation intuitive.
- (5) Durable Touch Glass: The touch glass cover has a thickness of 1.1 mm and a hardness rating of 6H, providing excellent resistance to scratches and ensuring durability for frequent use.
- (6) High Light Transmittance: The touch glass cover achieves a transmittance of ≥ 87%, which helps maintain the display's brightness and color accuracy, contributing to an enhanced viewing experience.
- (7) Wide Operating Temperature Range: This module operates effectively in a temperature range of -20°C to +70°C, making it suitable for diverse environments, including industrial settings.
- (8) Robust Storage Temperature Range: The CH120FH01A-CT can withstand storage temperatures from -30°C to +80°C, ensuring reliability and performance even in extreme conditions.

Technical Parameters:

Storage Temperature	-30°~ +80°°C	
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Touch Panel Type	Capacitive
Brightness	1000 Cd/m2
Viewing Direction	80/80/80/80
Resolution	1920x1080 Dots
Touch Glass Cover Thickness	1.1 Mm
LCD Interface	EDP
Touch Panel Interface	12C
Display Mode	IPS /transmissive/ Normally Black
Color	16M



Customization:

The CH120FH01A-CT display module offers a variety of customization options to meet customers' specific needs in different applications. As a high-performance display solution, Chenghao Optoelectronic is committed to flexible customization according to customer requirements to ensure that the product can perfectly adapt to various usage scenarios.

FPC shape and structure customization: Customers can customize the shape and structure of the flexible printed circuit (FPC) according to the specific requirements of their devices. This flexibility allows the CH120FH01A-CT to better integrate with different hardware configurations, ensuring ease of installation and compatibility.

Backlight brightness adjustment: The backlight brightness of the CH120FH01A-CT can be adjusted according to customer needs. Customers can choose the brightness level that suits their specific application environment to ensure optimal visual effects under various lighting conditions.

LCD interface definition: The module supports multiple LCD interface types, and customers can choose the appropriate interface type according to their system requirements. These interfaces include EDP, MIPI, etc., ensuring seamless connection with customers' existing hardware systems.

Touch panel design: For applications that require touch interaction, the CH120FH01A-CT provides customized touch solutions. Customers can choose between capacitive or resistive touch panels to meet different user experience needs. Customized touch panels can be optimized according to the device's usage scenario to ensure good touch response.

Customized appearance design: In addition to functional customization, the CH120FH01A-CT can also be adjusted in appearance design to meet the visual recognition needs of the customer's brand. This includes customization of colors, logos, and other visual elements to make the product more attractive in the market.

With these customization options, the CH120FH01A-CT display module can not only meet customers' specific technical requirements, but also provide flexibility in appearance and functionality, making it an ideal choice for various industry applications. Whether in industrial control, medical equipment or smart home, CH120FH01A-CT can provide the best solution through customized services.

FAQ:

- 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 CH120FH01A-CT.
- Q: What certifications does this TFT LCD Capacitive Touchscreen product have?

- A: This product is certified with CE, RoHS, and FCC.
- Q: What is the minimum order quantity for this TFT LCD Capacitive Touchscreen product?
- A: There is no minimum order quantity (No Moq) required for this product.
- Q: What are the packaging details for this TFT LCD Capacitive Touchscreen product?
- A: All the products are packed in the 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.



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