



1280x800 TFT Lcd Display 12.1 Inch Lvds Interface 16M Color Screen Module

Our Product Introduction

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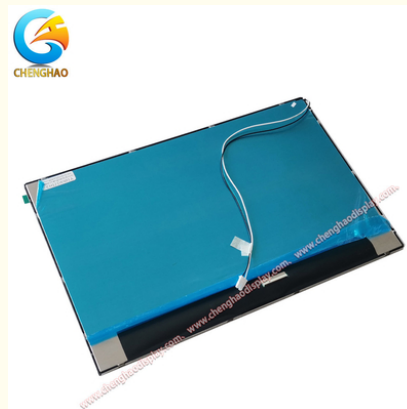
Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH121WX01A
- 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

- Module Outline Size: 277.7 * 180.6 * 7.5 Mm
- Resolution: 1280x800 Dots
- Storage Temperature: -30 ~ +80 °C
- Backlight Type: 48 Pcs White LED
- Color: 16M
- Operating Temperature: -20 ~ +70 °C
- Interface: LVDS
- Viewing Area Size: 262.12 * 164.2 Mm
- Highlight: 1280x800 TFT Lcd Display,
16M Color TFT Lcd Display,
12.1 Inch TFT Lcd Display



More Images

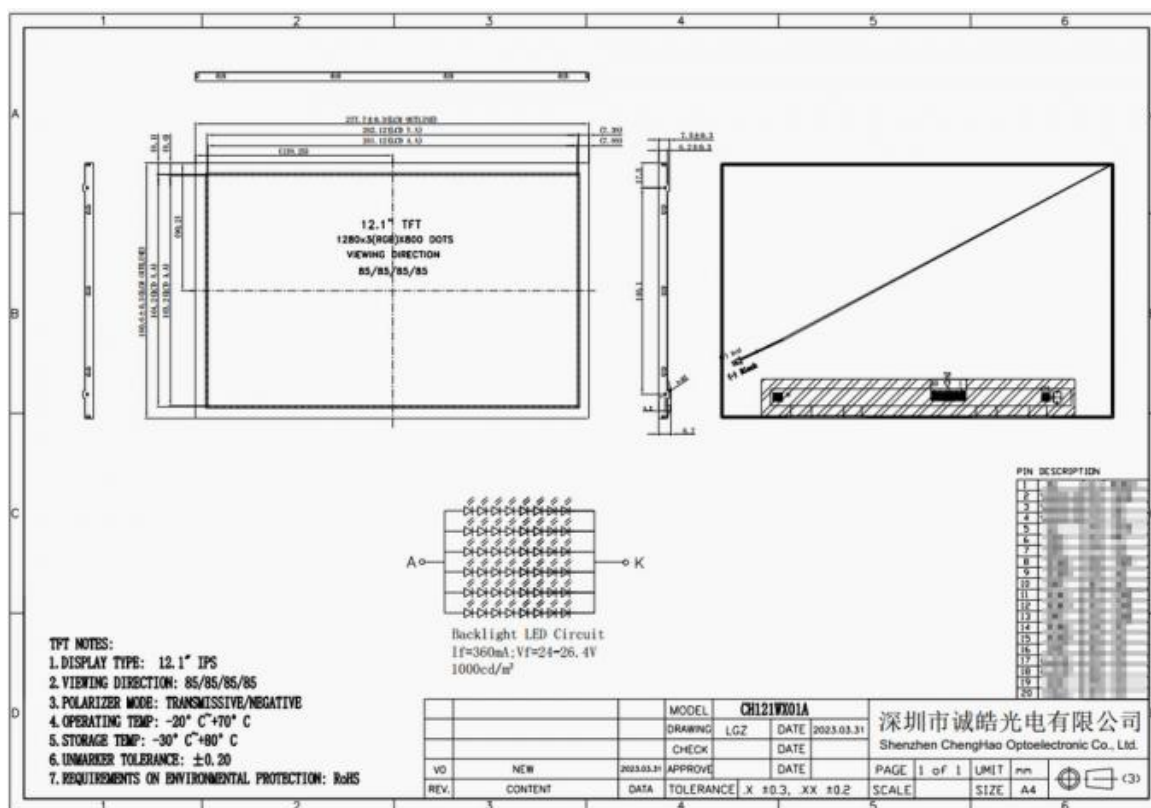


Product Description

Product Description:

CH121WX01A is a 12.1-inch vertical screen TFT LCD module designed for industrial and commercial applications. It uses high-resolution IPS technology to achieve a clear display of 1280x800 pixels. Its 85/85/85° wide viewing angle design ensures color distortion-free viewing from all directions, and its 1000cd/m² high brightness adapts to strong light environments, such as outdoor advertising or industrial control scenarios. The transmissive normally black mode combined with LED backlight technology improves contrast while reducing power consumption and extending device life.

CH121WX01A has excellent environmental adaptability and reliability, which enables it to operate stably in a variety of complex environments. It has a wide temperature range operation capability, with an operating temperature range of -20°C to +70°C, and a storage temperature range of -30°C to +80°C. This means that it can easily cope with low temperature environments in cold storage, and can also work normally in hot environments such as high-temperature workshops. It will not affect performance due to extreme temperature changes, and has strong environmental adaptability.



Features:

* High resolution: The CH121WX01A module offers a resolution of 1280x800, which means it can display clearer and more detailed images and texts, suitable for applications that require high visual quality, such as medical equipment and industrial control panels. This high resolution ensures that users can get a better visual experience, especially in terms of detail display.

* IPS display technology: The module adopts IPS (In-Plane Switching) technology, providing a wide viewing angle of 85 degrees. This technology allows the display to maintain color accuracy and consistency at different angles, avoiding the color distortion and reduced contrast of traditional LCD monitors when viewed from the side. This makes the CH121WX01A particularly suitable for applications that require multiple people to watch at the same time.

* High brightness: The module has a brightness of up to 1000 cd/m², ensuring clear readability in strong light

environments. This feature makes the CH121WX01A ideal for outdoor use or use in environments with strong light, such as in-vehicle displays and outdoor billboards.

- * Wide temperature range: The operating temperature range of the CH121WX01A is -20°C to +70°C, and the storage temperature can reach -30°C to +80°C, which enables the module to operate stably under extreme environmental conditions and is suitable for a variety of industrial and outdoor applications. This tolerance ensures the reliability of the product under harsh conditions and reduces the failure rate.
- * Compact design: The module has a compact design with dimensions of 277.7mm x 180.6mm x 7.5mm, suitable for devices with limited space. This design enables it to be easily integrated into a variety of devices, such as portable medical devices and smart home products.
- * Multi-industry applications: The CH121WX01A is widely used in multiple industries, including industrial control, medical equipment, smart home, IoT devices, etc. Its versatility and high performance make it an ideal choice for various applications, meeting the needs of different customers.
- * Customization support: The module supports a variety of customization services, including modification of FPC shape, adjustment of backlight brightness, and definition of LCD interface. This flexible customization capability enables CH121WX01A to provide personalized solutions according to the specific needs of customers and adapt to the requirements of different projects.

Technical Parameters:

Module Outline Size	277.7 * 180.6 * 7.5 Mm
Viewing Direction	85/85/85/85
Screen Brightness	1000 Cd/m2 Luminance
Interface	LVDS
Color	16M
Storage Temperature	-30 ~ +80 °C
FPC Pin Number	40 Pins
Viewing Area Size	262.12 * 164.2 Mm
Resolution	1280x800 Dots
Active Area Size	261.12 * 163.2 Mm

Applications:

CH121WX01A has a wide range of applications in many fields, providing high-quality display solutions for equipment in various industries.

In industrial control terminals, the industrial environment is often complex and changeable, and the reliability and display clarity of the equipment are extremely high. With its high brightness and wide viewing angle, CH121WX01A can ensure that operators can clearly read complex data and information on the screen under various angles and lighting conditions, providing strong support for the precise control of industrial production. For example, on the automated production line of a large factory, workers can use this module to clearly monitor the operating status of the equipment, discover and solve problems in a timely manner, and improve production efficiency and product quality.

Medical imaging equipment has strict requirements for the display accuracy and stability of images. The high resolution and excellent color reproduction capabilities of CH121WX01A can accurately present medical images and help doctors diagnose diseases more accurately. When performing imaging examinations such as X-rays, CT, and MRI, doctors can clearly observe subtle lesions in the patient's body through this screen, providing a reliable basis for the diagnosis and treatment of the disease. At the same time, its wide temperature performance can also ensure that the equipment can operate stably in different environments of the hospital without being affected by temperature changes.

The in-vehicle information screen needs to adapt to vibration, high and low temperature changes and complex light conditions during vehicle driving. The thin and light design of CH121WX01A (total thickness ≤7.5mm) allows it to be easily embedded in the limited space in the car without occupying too much in-vehicle layout. The low power consumption characteristics help reduce the power consumption of the vehicle battery and extend the vehicle's range. Its high brightness and wide viewing angle ensure that drivers and passengers can clearly view navigation information, vehicle status and other content at different angles and lighting conditions, improving driving safety and riding experience.

Smart retail terminals need to attract customers' attention and provide a convenient interactive experience. The high brightness and clear display effect of CH121WX01A can display exquisite product pictures and promotional information to attract customers' attention. The multi-touch function and fast response time allow customers to easily query product information, perform self-service checkout and other operations, and improve shopping efficiency and experience. For example, in smart convenience stores, customers can quickly learn product details and complete payment through this screen, reducing waiting time in line.

In addition to the above standard features, CH121WX01A also provides customized services to meet the differentiated needs of customers. For some application scenarios with special requirements for brightness, such as outdoor advertising displays or industrial equipment in strong light environments, the brightness can be further adjusted according to customer needs to ensure clear visibility in various environments. In terms of interface adaptation, customized interface solutions can also be provided according to the customer's system architecture and equipment requirements to ensure seamless connection with other devices and reduce the difficulty and cost of system integration. This customized service can help customers create products that better meet their needs and enhance the competitiveness of products in the market.

In summary, CH121WX01A, with its high performance, high reliability and flexible adaptability, provides efficient display solutions for multiple industries such as industrial control, medical imaging, in-vehicle information, and smart retail, and is an ideal choice for equipment upgrades and innovations in various industries.

Customization:

The CH121WX01A LCD module offers a variety of customization options to meet customers' specific needs in different application scenarios. The following are the main customization contents of this product:

- (1) FPC shape and structure customization: According to the specific requirements of the customer's project, we can redesign the shape and structure of the FPC (flexible printed circuit). This customization ensures that the module can perfectly adapt to the customer's equipment, improving overall compatibility and installation convenience.
- (2) Backlight brightness adjustment: The CH121WX01A module supports customization of backlight brightness, and customers can choose the appropriate brightness according to actual application requirements. It can provide a brightness of up to 1000 cd/m², which is suitable for use in strong light environments to ensure clear readability of displayed content.
- (3) LCD interface type definition: We can define the LCD interface type according to customer needs and support a variety of interface options, including LVDS, MIPI, etc. This flexibility enables the CH121WX01A to be compatible with different controllers and systems to meet diverse connection requirements.
- (4) Touch panel design: For applications that require touch functions, we provide customized touch solutions, including capacitive and resistive touch panels. Customers can choose the appropriate touch technology according to the needs of the usage scenario to enhance the user interaction experience.

Through these customized options, CH121WX01A can not only meet the basic needs of customers, but also provide personalized solutions to help customers stand out in the highly competitive market. We are committed to providing customers with high-quality products and services to support the success of their projects.

FAQ:

Q: What is the brand name of the TFT LCD Display?

A: The brand name is Chenghao Optoelectronic.

Q: What is the model number of the TFT LCD Display?

A: The model number is CH121WX01A.

Q: What certifications does the TFT LCD Display have?

A: The TFT LCD Display is certified with CE, RoHs.

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

A: The minimum order quantity is 100 pcs.

Q: What are the packaging details for the TFT LCD Display?

A: All the products are packed in the right way to keep them 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.

Q: What is the delivery time for the TFT LCD Display?

A: The delivery time is 5~7 days.

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

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

Q: What is the supply ability of the TFT LCD Display?

A: The supply ability is 50000000 pcs/month.



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