15.6 Inch Large LCD Screen 30 Pins LVDS Interface 1920x1080 TFT Display

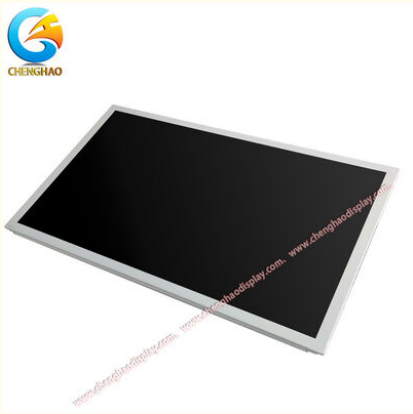
Our Product Introduction

Basic Information

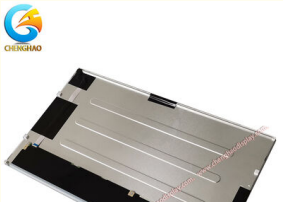
- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH156FH02A
- Minimum Order Quantity: 100 Pcs
- Packaging Details: All The Products Are Packed In Right Way To Keep It Safe. For Small Sizes Of Products We Use Tray + Carton, For Bigger Sizes We Use Foam Slot + 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 Direction: 12:00
- Lcd Interface: LVDS
- Display Mode: TN/Transmissive/Normally While
- Resolution: 1920*1080 Dots
- Active Area Size: 344*193 Mm
- Module Size: 370*217*9.3 Mm
- Storage Temperature: -30 ~ +80
- Screen Brightness: 300 Cd/m2
- Highlight: **15.6 inch TFT LCD display**, **30 pins LVDS interface display**, **1920x1080 resolution LCD screen**



More Images



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Product Description

Product Description:

The CH156FH02A is a high-performance 15.6-inch TFT display designed to meet the demands of various industrial and commercial applications. This module stands out with its impressive resolution of 1920 x 1080 pixels, providing crisp visuals and vibrant colors, which are essential for clear image rendering in professional settings. Operating with a brightness level of 300 cd/m², the display ensures visibility even in moderately illuminated environments, thus enhancing user interaction and operational efficiency.
Manufactured by Chenghao Optoelectronic, the CH156FH02A utilizes a TN (Twisted Nematic) display mode combined with a transmissive configuration, allowing for effective light utilization and producing colors with a depth of 16 million variations. Furthermore, the display features a viewing direction rated at 12 o'clock, ensuring optimal visibility from various angles without significant color distortion.
One of the distinguishing features of this module is its compatibility with the LVDS (Low-Voltage Differential Signaling) interface, which provides efficient data transmission and is more power-efficient than traditional signaling methods. This aspect is particularly crucial for applications that require prolonged operation while minimizing energy consumption. The interchangeable FPC pin numbers, totaling 30, allow for flexible installation options tailored to specific requirements.

In terms of environmental resilience, the CH156FH02A operates effectively in temperatures ranging from -20°C to +70°C, making it suitable for both standard and harsh climatic conditions. The storage temperature extends from -30°C to +80°C, thus providing additional assurance for its performance and reliability when not in use.
Customization plays a pivotal role in the versatility of this display. Chenghao Optoelectronic offers various modification options, enabling clients to adjust specifications such as FPC design, LCD interfaces like SPI or HDMI, and even backlight brightness ranging from 300 cd/m² to 3500 cd/m². This flexibility allows businesses to tailor the display to their specific needs, enhancing overall operational efficiency. Moreover, the module supports optional touch functionality, accommodating either capacitive or resistive touch technologies to enhance interactivity. Various anti-glare and electromagnetic interference (EMI) features can also be integrated, reinforcing its applicability in demanding environments.
In summary, the CH156FH02A encapsulates a perfect blend of advanced technology, customization, and durability, making it a prime choice for industries looking for high-quality display solutions.

Features:

Resolution

The CH156FH02A display boasts a high-definition resolution of 1920 x 1080 pixels. This full HD capability allows for exceptional detail and clarity in images, making it suitable for a variety of applications where visual precision is critical. Whether used in signage or industrial equipment, the resolution ensures that content is presented clearly and effectively, enhancing the overall user experience. The high pixel density not only contributes to vibrant color reproduction but also supports a wide range of graphics, making it a versatile choice.

Operating Temperature

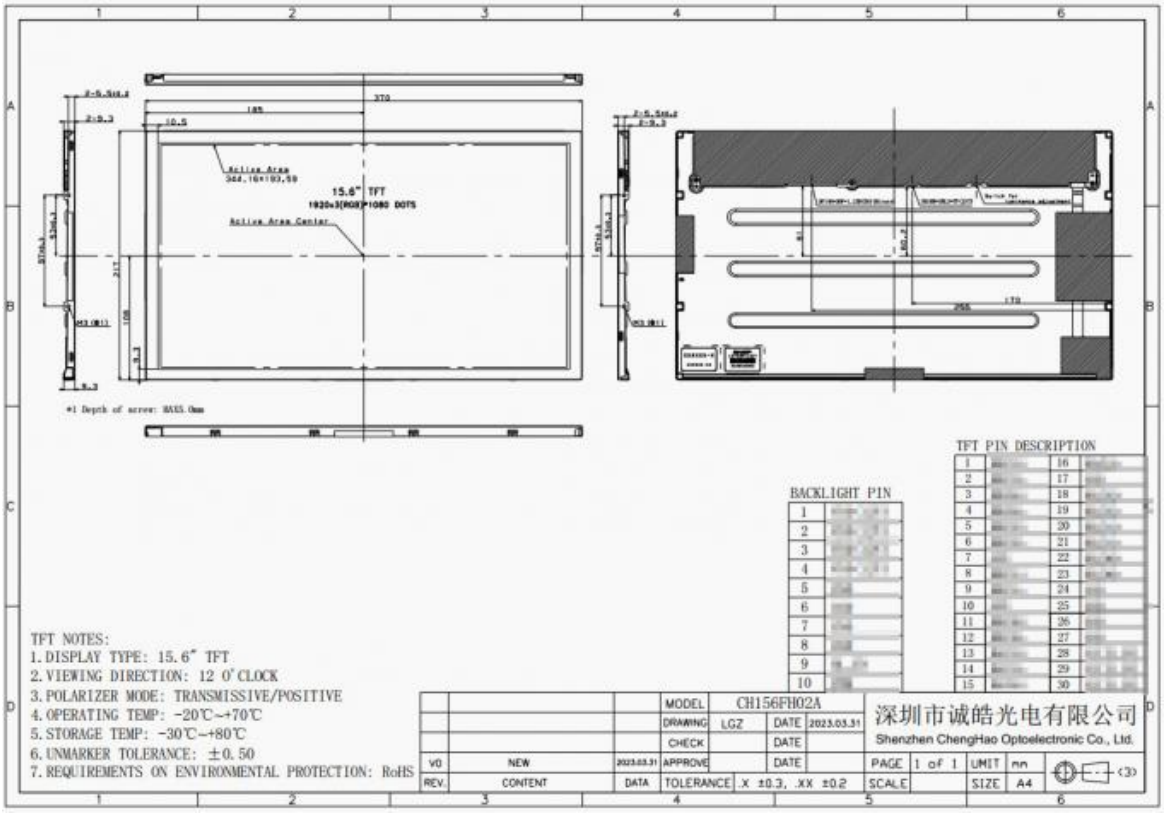
One notable feature of the CH156FH02A is its ability to operate effectively within a temperature range of -20°C to +70°C. This wide operating temperature range indicates its suitability for harsh environments, making it ideal for outdoor applications and industrial settings where conditions can vary significantly. The display's capacity to function in both low and high temperatures ensures reliability and performance, reducing the likelihood of malfunctions or degradation over time. This characteristic is crucial for maintaining consistent operation in diverse scenarios.

LCD Interface Type

This module incorporates the LVDS (Low-Voltage Differential Signaling) interface, which is known for its high-speed data transmission capabilities and reduced power consumption. The LVDS interface ensures that the signal integrity is maintained over longer distances, making it suitable for setups that require flexibility in installation. This feature is essential for reducing electromagnetic interference, thus enhancing the overall performance of the display. Additionally, the LVDS technology contributes to an efficient and reliable operation, facilitating smoother interactions in various contexts.

Technical Parameters:

Display Mode	TN/Transmissive/Normally White
Module Size	370*217*9.3 mm
LCD Interface	LVDS
Module Type	15.6" TFT
Storage Temperature	-30 ~ +80
Screen Brightness	300 Cd/m²
Active Area Size	344*193 mm
Operating Temperature	-20 ~ +70
Resolution	1920*1080 Dots
Viewing Direction	12:00



Customization:

The CH156FH02A TFT LCD display offers a robust platform for customization, catering to the specific requirements of various industrial and commercial applications. Understanding that each project may have unique needs, the customization options provided by Chenghao Optoelectronic allow businesses to tailor the display to achieve optimal performance and functionality.

One of the primary customization aspects is the **FPC Design**. Clients can specify the shape, structure, and pin configuration of the flexible printed circuit (FPC). This adaptability ensures that the display can fit seamlessly into different assembly processes and mechanical setups, minimizing integration challenges.

Another critical area of customization is the **LCD Interface**. The CH156FH02A supports various communication protocols, including SPI, MCU, RGB, MIPI, and HDMI, in addition to its standard LVDS interface. This versatility enables clients to choose the most suitable interface for their systems, ensuring efficient data transfer and compatibility with existing hardware.

Screen Brightness is also a significant factor in customization. The display offers the option to adjust brightness levels according to specific environmental requirements. Clients can select brightness settings ranging from 300 cd/m² to 3500 cd/m², allowing for optimal visibility in diverse lighting conditions. Enhanced brightness capabilities can be particularly beneficial for applications in bright surroundings, ensuring that images remain sharp and clear.

Furthermore, the **Operating Temperature** can be customized. While the standard operating range is -20°C to +70°C, businesses can request modifications for environments requiring wider temperature tolerances, from -10°C to +60°C or even -45°C to +90°C. Such adjustments enable the display to perform reliably in extreme conditions, thus expanding its range of potential applications.

Additionally, **Glass Cover Customization** is offered to meet aesthetic and functional requirements. Custom options include variations in shape, thickness, and surface treatment, ensuring the glass cover enhances durability and meets design specifications. This customization not only protects the display but also aligns with the branding needs of different businesses.

Lastly, options for **Touch Functionality** can be included, allowing for the addition of capacitive or resistive touch screens. This feature promotes interactivity, making the display suitable for applications where user engagement is essential.

In conclusion, the CH156FH02A's extensive customization capabilities make it an exceptional choice for businesses seeking a tailored display solution. By meeting specific operational, aesthetic, and functional requirements, this module stands out in the competitive landscape of TFT LCD displays.

FAQ:

Q1: What is the brand and model number of this TFT LCD Display?
A1: The TFT LCD Display is manufactured by Chenghao Optoelectronic, and the model number is CH156FH02A.
Q2: Where is this TFT LCD Display produced?
A2: This product is made in Shenzhen, China.
Q3: What certifications does this TFT LCD Display have?
A3: The display is certified with CE, ISO9001, RoHS, and SGS.
Q4: What is the minimum order quantity and supply capacity?
A4: The minimum order quantity is 100 pieces, and the supply ability is up to 50,000,000 pieces per month.
Q5: How are the products packaged for shipping?
A5: All products are packed carefully to ensure safety. Small-sized products are packaged using tray plus carton, while bigger sizes use foam slot plus carton. Customized packaging according to customer requirements is also available.
Q6: What are the delivery time and payment methods available?
A6: Delivery time typically ranges from 3 to 7 days. Payment can be made via T/T, AliPay, or PayPal.

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