



240x320 ips tft lcd display 3.2 Inch 10Pins SPI Interface with Black Glass Cover

Our Product Introduction

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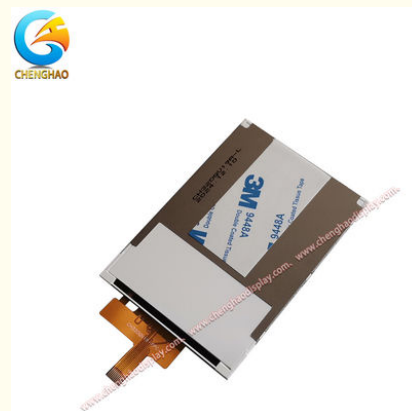
Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE、RoHS
- Model Number: CH320QV19A-L
- 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: 7-15 Working Days
- Supply Ability: 300Kpcs/month



Product Specification

- Module Type: 3.2" TFT +Black Glass Cover
- Active Area Size: 48.6x64.8 Mm
- Touch Type: No Touch
- Display Mode: IPS/Transmissive/Normally Black
- Module Size: 55.04x77.7x3.2 Mm
- Resolution: 240x320 Dots
- Screen Brightness: 300 Cd/m2
- FPC Pin Numbers: 10
- Highlight: 3.2 inch IPS TFT LCD display , SPI interface LCD with capacitive touch, 240x320 resolution TFT LCD screen



More Images

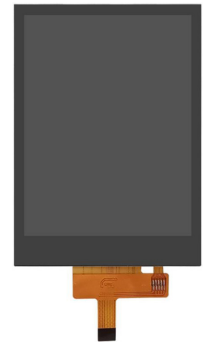


Product Description

Product Description:

The CH320QV19A-L is a compact and versatile 3.2-inch TFT LCD display module designed to cater to various applications across multiple industries. With a resolution of 240x320 dots, this module delivers sharp and vibrant visuals, making it suitable for devices that require clear image representation. The display utilizes IPS (In-Plane Switching) technology, which enhances color accuracy and provides wide viewing angles, ensuring that images remain consistent and true to life from different perspectives.

One of the key features of the CH320QV19A-L is its brightness level of 300 cd/m². While this brightness is adequate for indoor environments, it is important to note that it is not designed for outdoor use in direct sunlight. The standard brightness level makes it ideal for applications in controlled lighting conditions, such as in medical devices, industrial control panels, and smart home interfaces. In these settings, the display can effectively convey information without being washed out by ambient light.



The module operates within a temperature range of -20 to +70 degrees Celsius, making it suitable for a variety of environments, including industrial and medical applications where temperature fluctuations may occur. This wide operating temperature range ensures that the CH320QV19A-L maintains performance and reliability even in challenging conditions.



In terms of connectivity, the CH320QV19A-L features an SPI (Serial Peripheral Interface) for its LCD interface, facilitating easy integration with microcontrollers and other digital devices. This compatibility allows for straightforward implementation in various projects, whether in prototyping or mass production. The compact dimensions of 55.04 x 77.7 x 3.2 mm further enhance its adaptability, making it easy to incorporate into space-constrained designs.

In conclusion, the CH320QV19A-L display module is an excellent choice for a wide range of indoor applications. Its combination of high resolution, reliable performance, and ease of integration makes it a valuable component for industries that demand quality and efficiency. Whether in industrial, medical, or smart home applications, the CH320QV19A-L is designed to deliver exceptional visual quality and functionality.

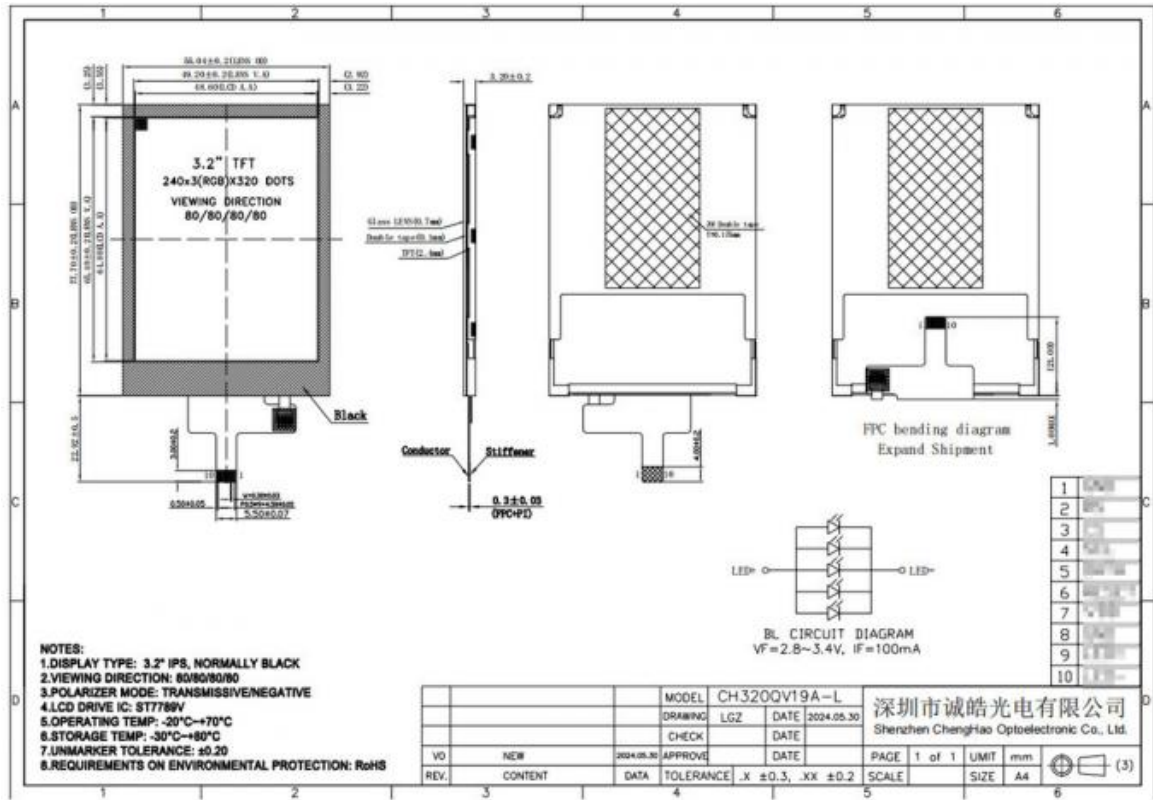
Features:

Resolution: The CH320QV19A-L features a resolution of 240x320 dots, which provides a clear and detailed visual output. This resolution is particularly suitable for applications that require precise image rendering, such as handheld devices and small displays in industrial settings. The clarity offered by this resolution ensures that users can easily read text and view graphics without straining their eyes, making it ideal for user interfaces in various electronic devices.

Brightness: With a brightness level of 300 cd/m², the CH320QV19A-L is designed for indoor use where lighting conditions can be controlled. This brightness is sufficient for environments such as offices, homes, and medical facilities, where the display can effectively convey information without being affected by ambient light. However, it is important to note that this brightness level may not be adequate for outdoor applications, especially in direct sunlight.

Operating Temperature: The CH320QV19A-L operates effectively within a temperature range of -20 to +70 degrees Celsius. This wide operating temperature range allows the display module to be used in various environments, including industrial applications where temperature fluctuations are common. The ability to function reliably in both cold and hot conditions ensures that the module can maintain performance and longevity, making it a robust choice for demanding applications.

LCD Interface Type: The module utilizes an SPI (Serial Peripheral Interface) for its LCD interface, which facilitates easy integration with microcontrollers and other digital devices. This interface is widely recognized for its simplicity and efficiency in communication, allowing for rapid data transfer between the display and the controlling unit. The SPI interface makes the CH320QV19A-L a versatile option for developers looking to implement this display in various projects, whether for prototyping or production.



Technical Parameters:

Operating Temperature	-20 ~ +70
Resolution	240x320 Dots
Touch Interface	IIC
Touch Type	No Touch
Display Mode	IPS/Transmissive/Normally Black
Viewing Area Size	49.2x65.4 Mm
Active Area Size	48.6x64.8 Mm
Module Size	55.04x77.7x3.2 Mm
Lcd Interface	SPI
Color	16M

Applications:

Industrial Control: The CH320QV19A-L display module is highly effective in industrial control systems, where it can be integrated into control panels for machinery and equipment. For example, it can be used in programmable logic controllers (PLCs) to provide operators with real-time data visualization, such as machine status, operational parameters, and alerts. The module's compact size and clear resolution allow for easy integration into existing control systems, enhancing the overall efficiency of industrial operations.

Medical Equipment: In the medical field, the CH320QV19A-L can be utilized in devices such as handheld diagnostic tools and portable monitoring equipment. Its resolution of 240x320 dots provides the clarity needed for displaying critical patient data, such as heart rates and other vital signs. The display's reliability in various indoor environments makes it suitable for use in hospitals and clinics, where accurate and timely information is crucial for patient care.

Smart Home Applications: The CH320QV19A-L display module can be integrated into smart home devices, such as smart thermostats and home automation control panels. Its user-friendly interface allows homeowners to easily manage their lighting, security systems, and climate control. The module's compact dimensions make it ideal for installation in various smart home devices, providing a seamless user experience and enhancing the functionality of home automation systems.

Instrumentation: This display module is also applicable in instrumentation devices, such as environmental monitoring systems. It can effectively display data related to temperature, humidity, and air quality, allowing users to monitor environmental conditions in real-time. The IPS technology used in the display ensures that information is easily readable from different angles, making it suitable for laboratory and field applications where multiple users may need to access the data simultaneously.

Vehicle-Mounted Applications: The CH320QV19A-L can be utilized in vehicle-mounted applications, including dashboard displays and navigation systems. Its compact size and adequate brightness make it suitable for integration into vehicle interiors, providing drivers with essential information such as speed, navigation directions, and system diagnostics. The module's ability to operate reliably in a temperature range of -20 to +70 degrees Celsius ensures that it can withstand the varying conditions encountered in automotive environments.

In summary, the CH320QV19A-L display module is versatile and adaptable, making it suitable for a wide range of applications across various industries. Its combination of clarity, compactness, and reliability ensures that it meets the demands of industrial control, medical equipment, smart home technology, instrumentation, and vehicle-mounted systems.

FAQ:

Q: What is the model number of the IPS LCD Display product?

A: The model number is CH320QV19A-L.

Q: What certifications does the IPS LCD Display product have?

A: The product is certified with CE and RoHS.

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

A: The minimum order quantity is 100 pieces.

Q: How are the IPS LCD Display products packaged for delivery?

A: All the products are packed in the right way to keep them safe. For small sizes, we use tray + carton, and for bigger sizes, we use foam slot + carton. We also design packages according to customers' requirements.

Q: What is the delivery time for the IPS LCD Display product?

A: The delivery time is 7-15 working days.

Q: What is the supply ability of the IPS LCD Display product?

A: The supply ability is 300,000 pieces per month.



Shenzhen ChengHao Optoelectronic Co., Ltd.



+86 755-27806536



add@chenghaolcm.com



chenghaolcd.com

7th floor, building C5, Hengfeng Industrial City, Hangcheng street, Bao'an District, Shenzhen