2 Inch Small Tft Lcd Display 240x320 Resolution SPI Interface
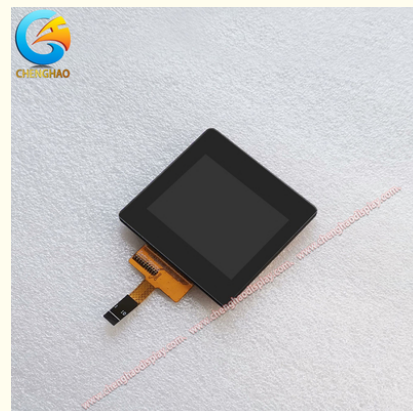
Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: RoHS CE FCC
- Model Number: CH200QV03B-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: 3~7 Days
- Payment Terms: TT
- Supply Ability: 300K Pcs/month

Product Specification

- Contrast: 800:1
- Display Mode: IPS/Transmissive/normally Black
- Number Of Dots: 320x240
- Storage Temperature: -30 ~ +80 ℃
- Operating Temperature: -20 ~ +70 ℃
- Active Area Size: 40.8 X 30.6 Mm
- Viewing Direction: 85/85/85/85
- Lcd Interface: SPI

More Images

Product Description

Product Description:

CH200QV03B-L is a high-performance 2-inch TFT LCD display module designed and manufactured by Chenghao Optoelectronic. Designed to meet the needs of a variety of industrial and commercial applications, the module features excellent display effects and reliable performance. As a company established in 2016, Chenghao Optoelectronic has accumulated rich experience in the research and development, production and sales of small and medium-sized display modules, and is committed to providing customers with one-stop display solutions.

The display module has an appearance size of 53.3 x 50.5 x 4.28 mm, a viewing area of 44.85 x 39.5 mm and an active area of 40.8 x 30.6 mm. Its design adopts advanced IPS (In-Plane Switching) technology to ensure a wide viewing angle display effect, and the viewing direction reaches the standard of 85/85/85/85, which can maintain color accuracy and consistency at different angles. This makes CH200QV03B-L particularly suitable for application scenarios that require high-quality image display, such as medical equipment, industrial control, and smart home.

In terms of functional parameters, the CH200QV03B-L display module has a resolution of 240x320 pixels and a brightness of up to 1000 cd/m². This high brightness feature allows the module to be clearly visible in strong light environments, making it suitable for use outdoors or in environments with strong light. In addition, the module has an operating temperature range of -20°C to 70°C and a storage temperature range of -30°C to 80°C, ensuring its stability and reliability under extreme environmental conditions.

The CH200QV03B-L also supports the SPI interface, which facilitates connection with various controllers and systems and simplifies the integration process. The design of the module not only takes into account performance, but also focuses on the user's customization needs. Chenghao Optoelectronic provides customization services, and customers can adjust the shape and structure of the FPC, modify the backlight brightness, define the LCD interface, and even design a customized touch panel according to their specific needs. This flexibility enables the CH200QV03B-L to be widely used in multiple industries, including artificial intelligence, IoT devices, automotive applications, etc.

In short, CH200QV03B-L is an LCD display module that combines high performance, flexibility and reliability, suitable for a variety of application scenarios. Whether in industrial control, medical equipment or smart home, CH200QV03B-L can meet customer needs with its excellent display effects and customized services. Choosing CH200QV03B-L, you will get a high-quality display solution to help your project succeed.

Features:

High resolution: CH200QV03B-L has a resolution of 240x320 pixels, which can provide clear images and delicate display effects, suitable for a variety of application scenarios.

IPS display technology: Adopting IPS (In-Plane Switching) technology, it ensures wide viewing angle display, with a viewing angle of 85/85/85/85, and can maintain color accuracy and consistency at different angles.

High brightness: The module has a brightness of up to 1000 cd/m², which can maintain good readability in strong light environments, suitable for outdoor and strong light applications.

Wide temperature range: CH200QV03B-L has an operating temperature range of -20°C to 70°C and a storage temperature range of -30°C to 80°C, ensuring stability and reliability under extreme environmental conditions.

SPI interface support: The module supports SPI interface, which is convenient for connection with various controllers and systems, simplifying the integration process.

Customized service: Chenghao Optoelectronic provides customized service. Customers can adjust FPC shape, modify backlight brightness, define LCD interface, etc. according to specific needs to meet the special requirements of different applications.

Multi-industry application: This display module is widely used in multiple industries such as industrial control, medical equipment, smart home, artificial intelligence and IoT devices, with strong adaptability.

Technical Parameters:

Active Area Size	40.8 X 30.6 mm
Display Mode	IPS/Transmissive/Normally Black
Viewing Area Size	41.4 X 31.2 mm
Contrast	800:1
Viewing Direction	85/85/85/85
LCD Interface	SPI
Operating Temperature	-20 ~ +70 °C

Storage Temperature	-30 ~ +80 °C
Module Size	53.3 X 50.5 X 4.28 mm
Number of Dots	320x240

Applications:

CH200QV03B-L is a high-performance 2-inch TFT LCD module that can play an important role in multiple industries due to its excellent display effect and wide applicability. The following are the main application areas of this product:

Industrial control: In industrial automation equipment, CH200QV03B-L can be used to display device status, operation interface and real-time data monitoring. Its high brightness and wide viewing angle characteristics enable operators to clearly read information in different working environments, improving work efficiency and safety.

Medical equipment: This display module is very suitable for various medical equipment, such as heart rate monitors, blood glucose meters and portable ultrasound equipment. The characteristics of high resolution and high brightness ensure the clarity and readability of medical images, helping medical staff to better diagnose and monitor.

Smart home: In smart home products, CH200QV03B-L can be used for smart control panels, display interfaces of home appliances, etc. Its compact size and customization capabilities make it easy to integrate into various home devices to enhance user experience.
In-vehicle equipment: The high brightness and wide temperature range of this module make it an ideal choice for in-vehicle display systems. Whether it is in-vehicle navigation, central control display or rear-seat entertainment system, CH200QV03B-L can provide clear visual effects to ensure driving safety and passenger entertainment experience.

IoT devices: With the development of IoT technology, CH200QV03B-L has also been widely used in smart sensors, monitoring equipment and other IoT applications. Its flexible interface and customization options enable it to adapt to different IoT solutions.

Consumer electronics: In consumer electronics products such as digital photo frames, portable game consoles and other small display devices, the high resolution and color performance of CH200QV03B-L can meet users' high requirements for visual effects.

Security identification equipment: The module is also suitable for security identification equipment such as access control systems and attendance punching machines. Its clear display and reliable performance can effectively improve the user experience and system security.

Through the introduction of the above application fields, it can be seen that the flexibility and adaptability of CH200QV03B-L make it an indispensable display solution in many industries. Whether in industrial, medical, smart home or automotive equipment, CH200QV03B-L can provide excellent performance and reliable support to create greater value for customers

Support and Services:

At Chenghao Optoelectronic, we understand the importance of quality support and service to our customers' success. We offer a comprehensive range of support and services for the CH200QV03B-L 2-inch TFT LCD module to ensure that customers get the best experience during use.

Technical Support: Our professional technical team is always ready to provide technical advice and guidance to customers. Whether it is product selection, design integration or troubleshooting, we can provide timely support to customers to help customers solve any technical problems encountered during the use of CH200QV03B-L.
Customization Service: The flexibility of CH200QV03B-L enables it to meet the specific needs of different customers. We

provide customization services, including modification of FPC shape and structure, adjustment of backlight brightness, definition of LCD interface and design of touch panel. Customers can work closely with our team according to project requirements to ensure that the final product fully meets their application requirements.

Sample Support: To help customers better evaluate product performance, we provide sample support. Customers can apply for samples for testing to ensure that CH200QV03B-L can meet the specific requirements of their projects. This service enables customers to fully verify the suitability and performance of the product before large-scale procurement.

Quality Assurance: Chenghao Optoelectronic strictly follows the ISO9001 quality management system and ISO14001 environmental management system standards to ensure that each CH200QV03B-L module undergoes rigorous quality testing. Our products not only meet international standards, but also meet customers' high quality requirements and provide customers with reliable product guarantees.

After-sales service: We value customer feedback and provide comprehensive after-sales service. If customers encounter any problems during use, our after-sales team will respond quickly and provide solutions to ensure customer satisfaction and continued performance of the product.

Through the above support and services, Chenghao Optoelectronic is committed to providing customers with comprehensive solutions to ensure the successful implementation of CH200QV03B-L in various applications. We look forward to working with customers to jointly promote technological progress and innovation and create greater value for customers

FAQ:

Q: What is the brand name of this Small LCD Touch Screen?
A: The brand name is Chenghao Optoelectronic.
Q: What is the model number of this Small LCD Touch Screen?
A: The model number is CH200QV03B-L.
Q: What certifications does this Small LCD Touch Screen have?
A: This product is certified with RoHS, CE, and FCC.
Q: What is the minimum order quantity for this Small LCD Touch Screen?
A: The minimum order quantity is 100 pieces.
Q: What are the packaging details for this Small LCD Touch Screen?
A: All the products are packed in the right way to keep them safe. For small sizes of products, we use tray + carton, while for bigger sizes, we use foam slot + carton. We also design packages according to customers' requirements.