

## 3.2 Inch Ips Lcd Display 240x320 Resolution SPI Interface TFT Module

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

- Color: 16M
- Screen Brightness: 300 Cd/m2
- Viewing Area Size: 49.2x65.4 Mm
- Viewing Direction: 80/80/80/80
- Display Mode: IPS/Transmissive/Normally Black
- Screen Size: 3.2 Inch
- Module Type: 3.2" TFT +Black Glass Cover
- Highlight: 3.2 inch IPS LCD display, 240x320 resolution TFT module, SPI interface LCD display



### More Images



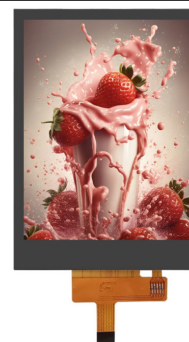
## Product Description

### Product Description:

The IPS LCD display is a high-quality color LCD designed for a variety of electronic devices, delivering vivid and sharp visuals. The 3.2-inch screen size provides ample viewing space for users to interact effectively with their devices.

With a resolution of 240x320 pixels, the IPS LCD display ensures crisp, detailed images, making it ideal for applications requiring the highest level of visual clarity. Whether viewing photos, videos, or text, this display delivers crisp, vibrant content.

The 49.2x65.4mm viewable area provides a comfortable viewing experience, ensuring content is displayed clearly and vividly. Whether indoors or outdoors, the IPS LCD display maintains excellent visibility and readability, making it adaptable to a variety of environments.



The display features an SPI LCD interface design, enabling seamless integration with a variety of electronic devices, enabling fast and reliable data transfer between the display and the device. The SPI interface ensures efficient communication, resulting in smooth operation and fast responsiveness.

In short, the IPS LCD display is a versatile and versatile color LCD display that combines vivid visuals with efficient data transfer. With a 3.2-inch screen size, 240x320 resolution, IPS full viewing direction, a 49.2x65.4 mm viewable area, and an SPI LCD interface, the display is suitable for a wide range of applications requiring a high-quality interactive display solution.

### Features:

**Resolution:** The CH320QV19A-L module has a resolution of 240x320 dots. This resolution is ideal for applications requiring sharp, clear images, and is suitable for a variety of devices, including handheld devices and small displays. IPS (In-Plane Switching) technology enhances color reproduction and viewing angles, ensuring that the displayed content remains vibrant at all angles.

**Brightness:** The display module has a brightness level of 300 cd/m<sup>2</sup>, which provides good visibility in indoor environmental conditions. This brightness is particularly suitable for indoor use, especially in low-light environments, ensuring that the displayed content remains readable and visually appealing.

**Operating Temperature:** The CH320QV19A-L is designed to operate in a temperature range of -20 to +70 degrees Celsius. This wide operating temperature range allows the module to be used in a variety of environments, including industrial environments with large temperature fluctuations. This feature ensures reliability and performance in extreme cold and hot conditions.

### Technical Parameters:

Viewing Direction	80/80/80/80
Lcd Interface	SPI
Viewing Area Size	49.2x65.4 Mm
Module Type	3.2" TFT +Black glass cover
Resolution	240x320 Dots
Contrast	800
Color	16M
Screen Size	3.2 Inch

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### Applications:

**Industrial Control:** The CH320QV19A-L display module is well-suited for industrial control systems, where it can be integrated into machinery and equipment for monitoring and control purposes. For instance, it can be used in programmable logic controllers (PLCs) to provide real-time data visualization, enabling operators to monitor system performance and make adjustments as necessary. The module's robust operating temperature range of -20 to +70 degrees Celsius ensures reliable performance in harsh industrial environments.

**Medical Equipment:** In the medical field, the CH320QV19A-L can be employed in devices such as handheld diagnostic tools and portable ultrasound machines. The clear resolution of 240x320 dots allows for precise imaging, which is crucial for accurate diagnostics. Additionally, the module's brightness of 300 cd/m² ensures that images are easily visible in various lighting conditions, which is particularly important in clinical settings where lighting may vary.

**Smart Home Applications:** The CH320QV19A-L display can be integrated into smart home devices, such as smart thermostats and home automation panels. Its compact size and high-quality display make it ideal for user interfaces that require touchless operation. Although this specific model does not feature a touch interface, it can still serve as an informative display for controlling various home functions, such as lighting and security systems. The module's compatibility with Internet of Things (IoT) protocols allows for seamless integration into smart home ecosystems.

**Instrumentation:** The CH320QV19A-L is also applicable in instrumentation devices, such as environmental monitoring equipment. It can display critical data such as temperature, humidity, and air quality levels in a user-friendly format. The IPS display technology enhances visibility from different angles, making it easier for users to read the information from various positions. This feature is particularly beneficial in laboratory settings where multiple users may need to view the display simultaneously.

**Vehicle-Mounted Applications:** This display module can be utilized in vehicle-mounted applications, including dashboard displays and navigation systems. Its compact size and high brightness make it suitable for integration into vehicles, providing drivers with essential information such as speed, navigation directions, and vehicle diagnostics. The module's durability and wide operating temperature range ensure that it can withstand the varying conditions encountered in automotive environments.

## FAQ:

**Q: What is the brand name of the IPS LCD display product?**

**A:** The brand name of the IPS LCD display product is Chenghao Optoelectronic.

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

**A:** The model number of the IPS LCD display product is CH320QV19A-L.

**Q: What certifications does the IPS LCD display product have?**

**A:** The IPS LCD display 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 for the IPS LCD display product is 100 pcs.

**Q: What are the packaging details for the IPS LCD display product?**

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



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