

## 2.8 Inch Tft Lcd Display 240x320 IPS Free Viewing direction with 50 Pin FPC

### Our Product Introduction

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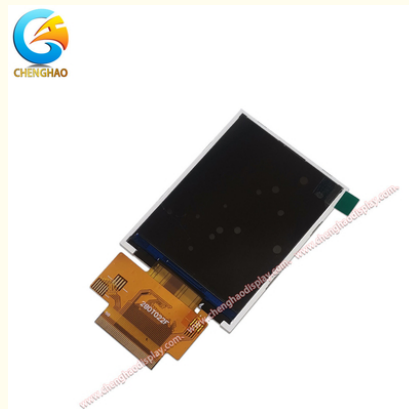
#### Basic Information

- Brand Name: Chenghao Optoelectronic
- Certification: CE, ISO9001, Rose, SGS
- Model Number: CH280QV22F
- 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 Type: 2.8" TFT
- Operating Temperature: -20 ~ +70 °C
- FPC Pin Numbers: 50 Pins
- Storage Temperature: -30 ~ +80 °C
- Contrast: 800
- Interface: SPI+MCU+RGB
- Luminance: 300 Cd/m2
- Module Size: 50\*69.2\*2.4 Mm



#### More Images





## Product Description

### Product Description:

The CH280QV22F is a high-performance 2.8-inch TFT LCD display module designed to meet the needs of modern embedded devices. With a resolution of 240x320 pixels, the module can provide clear images and text display, suitable for a variety of application scenarios, including industrial control, medical equipment, smart home and consumer electronics. The IPS (In-Plane Switching) technology it adopts ensures wide-viewing color performance, allowing users to get a consistent visual experience at different angles, greatly improving the user experience.

In terms of brightness, the CH280QV22F has a standard brightness of 300 cd/m<sup>2</sup>, which ensures that it can output sufficient clarity when working in indoor environments. In addition, the module's contrast is also quite good, which can present more vivid colors and make the image more vivid. The operating temperature range of the CH280QV22F is -20°C to +70°C, and the storage temperature can reach -30°C to +80°C, which enables the module to operate stably in various extreme environments to meet the needs of industrial and consumer electronics. This wide temperature feature enables it to cope with harsh environments such as factory floors, outdoor equipment, and medical equipment.



In terms of interfaces, the CH280QV22F supports multiple interface types, including SPI, MCU, and RGB, providing flexible connection options and facilitating compatibility with different controllers. This flexibility enables the CH280QV22F to be widely used in a variety of fields such as industrial control, medical equipment, smart home, and IoT devices, helping designers achieve more compact product designs.



In addition, the CH280QV22F also supports 262K color display, which can present rich colors and enhance the visual experience. This feature makes the module ideal for applications that require high color performance, such as portable game consoles, smart watches, and other consumer electronics. Its compact size (50mm x 69.2mm x 2.4mm) allows it to be easily integrated into a variety of devices, especially for applications with limited space. Chenghao Optoelectronic also provides customers with a variety of customized services, which can adjust the FPC shape, backlight brightness, and touch panel design according to specific needs. This customization capability enables the CH280QV22F to better adapt to customers' specific application scenarios, providing users with greater flexibility and convenience.

### Features:

**High Resolution:** CH280QV22F offers 240x320 resolution, which can clearly present images and texts, suitable for a variety of application scenarios.

**IPS Wide Viewing Angle Technology:** The module adopts IPS technology to ensure that users can get consistent color and clarity at different angles, which enhances the visual experience.

**Standard Brightness:** The TFT LCD adopts a standard brightness of 300 cd/m<sup>2</sup> Luminance, ensuring good readability under various lighting conditions, suitable for indoor and outdoor use.

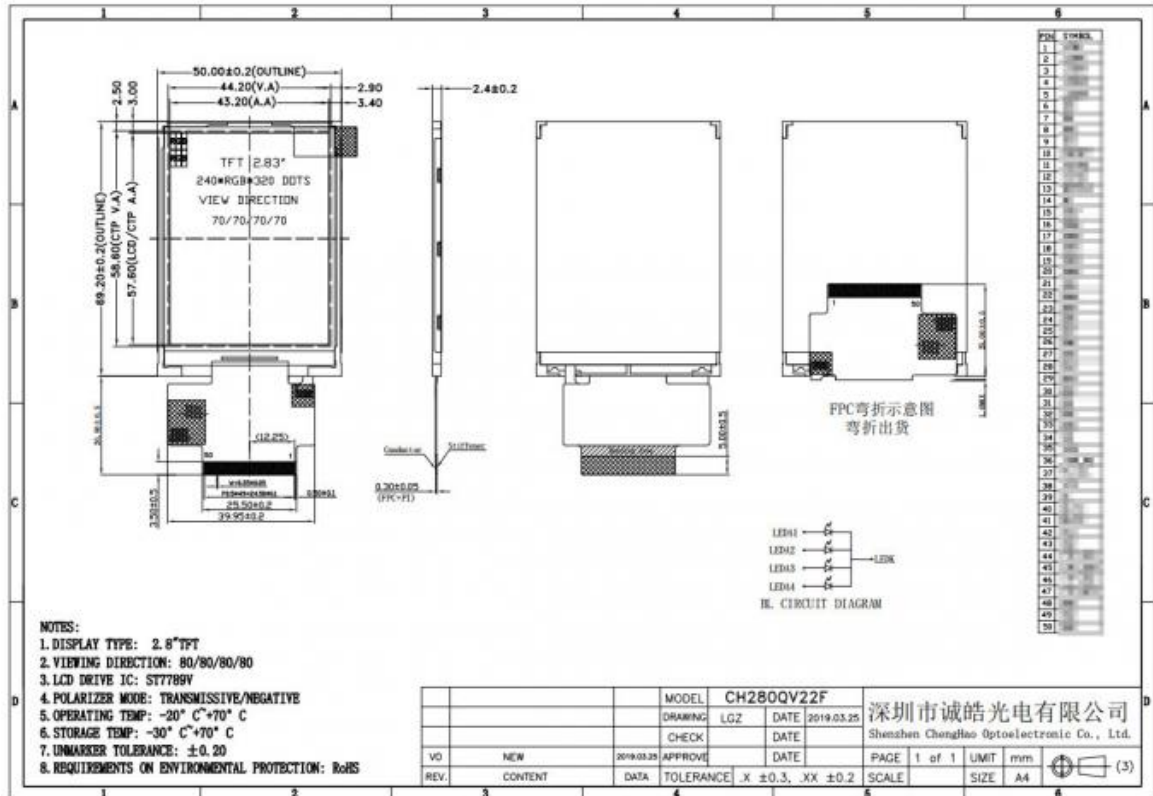
**Wide Temperature Operating Range:** The operating temperature range of CH280QV22F is -20°C to +70°C, enabling it to operate stably in a variety of extreme environments, meeting the needs of industrial and consumer electronics.

**Multiple Interface Support:** The module supports multiple interface types such as SPI, MCU and RGB, providing engineers with flexible connection options and convenient compatibility with different controllers

### Technical Parameters:

Interface	SPI+MCU+RGB
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Module Type	2.8" TFT
Contrast	800
Display Mode	IPS/Transmissive/Normally Black
Storage Temperature	-30 ~ +80 °C
Active Area Size	43.2*57.6 Mm
Resolution	240x320 Dots
Viewing Area Size	44.2*58.6 Mm
Operating Temperature	-20 ~ +70 °C
FPC Pin Numbers	50 Pins



### Support and Services:

Chenghao Optoelectronic is committed to providing customers with high-quality after-sales service to ensure that every customer can get the best experience when using CH280QV22F.

First of all, Chenghao Optoelectronic provides a 13-month product warranty service for all customers who purchase CH280QV22F modules. This means that during the warranty period, customers can enjoy free repair or replacement services to ensure that any quality problems that arise during the use of the product can be solved in a timely manner. This policy not only enhances customer confidence, but also reflects the company's high attention to product quality.

Secondly, for technical problems encountered by customers during testing and use, Chenghao Optoelectronic's professional technical team provides 24-hour remote online technical support. Whether it is the installation and debugging of the product, or difficult problems encountered during use, customers can contact the technical support team at any time to get timely help and guidance.

In addition, Chenghao Optoelectronic also provides customized services to adjust product parameters and designs according to the specific needs of customers. This includes customization in FPC shape, backlight brightness, and touch panel design to help customers better adapt to different application scenarios. This flexible customization capability enables the CH280QV22F to meet the needs of various industries, thereby enhancing the competitiveness of customers' products.

In terms of quality control, the CH280QV22F module undergoes strict quality inspections before leaving the factory to ensure that each product meets high standards of quality. In addition, Chenghao Optoelectronic has established long-term cooperative relationships with a number of logistics companies to provide efficient transportation services to ensure that products can be delivered to customers safely and promptly.

Finally, customer satisfaction is the goal that Chenghao Optoelectronic pays the most attention to. The company always adheres to the customer-centric service concept, actively listens to customer feedback and suggestions, and continuously improves and optimizes service quality.

## FAQ:

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

**A: The brand name is Chenghao Optoelectronic.**

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

**A: The model number is CH280QV22F.**

**Q: What certifications does this TFT LCD Display have?**

**A: This display is certified with CE, ISO9001, RoHS, and SGS.**

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

**A: The minimum order quantity is 100 pieces.**

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

**A: All the products are packed in a 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.**



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