



240x320 Color TFT Lcd Display 2.8inch SPI MCU RGB Multi-interface

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 Size: 50*69.2*2.4 Mm
- Active Area Size: 43.2*57.6 Mm
- FPC Pin Numbers: 50 Pins
- Display Mode: IPS/Transmissive/Normally Black
- Interface: SPI+MCU+RGB
- Resolution: 240x320 Dots
- Module Type: 2.8" TFT
- Viewing Area Size: 44.2*58.6 Mm



More Images



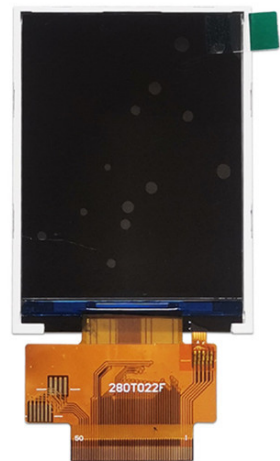


Product Description

Product Description:

The CH280QV22F is a high-performance 2.8-inch TFT LCD display module designed to meet the needs of modern embedded applications. With a resolution of 240x320 pixels, the module provides clear and detailed image display suitable for a variety of devices and application scenarios. It uses advanced IPS (In-Plane Switching) technology to ensure wide-viewing angle color performance, allowing users to get a consistent visual experience at different angles, greatly improving the user experience.

In terms of display performance, the CH280QV22F has a brightness of 300 cd/m², ensuring good readability in various indoor environments. This feature makes it very suitable for use in indoor environments, whether on industrial control panels or in consumer electronics, the CH280QV22F can provide excellent visual effects. In addition, the module also has excellent contrast, which can present more vivid colors and make the image more vivid.



The operating temperature range of CH280QV22F is -20°C to +70°C, while the storage temperature can reach -30°C to +80°C, which enables the module to operate stably in various extreme environments and meet the needs of industrial and consumer electronics. This wide temperature feature makes it very suitable for use in harsh environments, such as factory floors, outdoor equipment, and medical equipment.

In terms of interfaces, CH280QV22F supports multiple interface types, including SPI, MCU, and RGB, which provides designers with great flexibility and can easily connect to different controllers. This flexibility enables CH280QV22F to be widely used in many fields such as industrial control, medical equipment, smart home, and IoT devices.

The module measures 50mm x 69.2mm x 2.4mm and has a compact design, which is easy to integrate into various devices, especially suitable for applications with limited space. Whether in portable devices or fixed-mounted devices, CH280QV22F can easily adapt to help designers achieve more compact product designs.

Features:

High-resolution display: CH280QV22F provides 240x320 resolution, which can clearly present details, ensure the readability of images and text, and is suitable for a variety of application scenarios.

Wide viewing angle technology: The module adopts IPS technology and supports wide viewing angle display. Users can still get consistent color and clarity when watching at different angles, which improves the user experience.

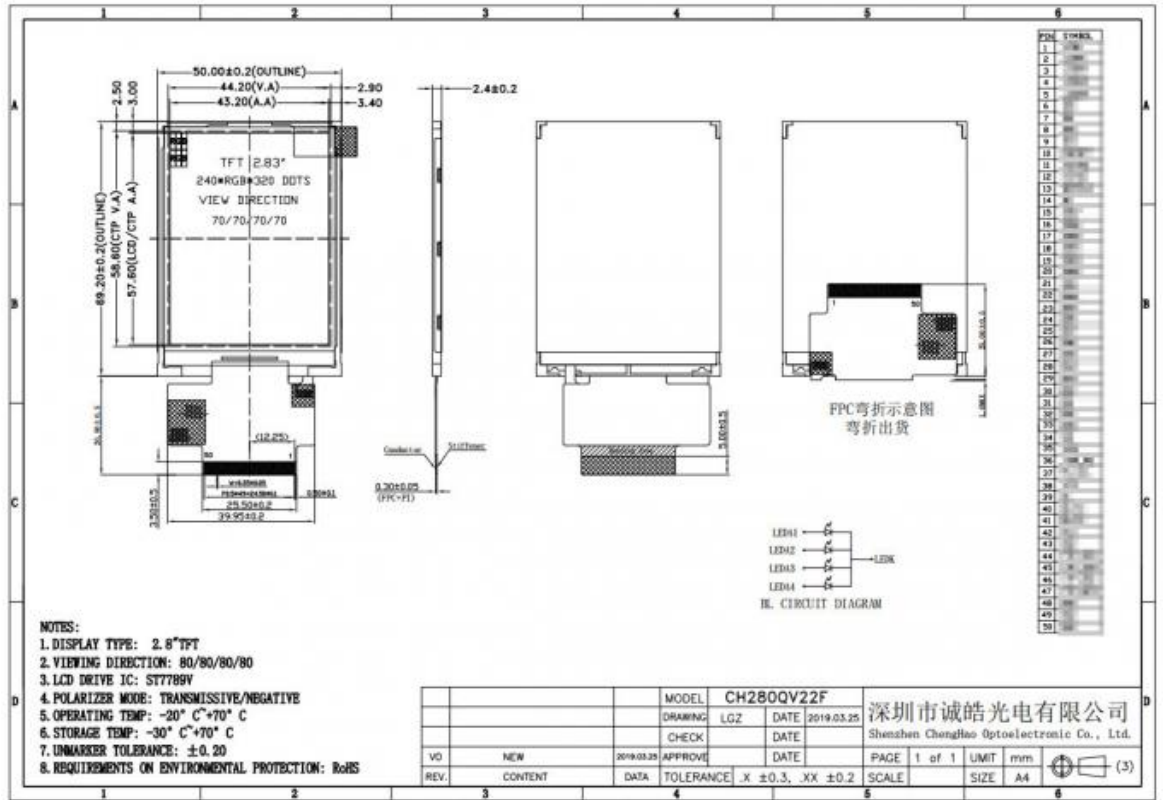
High brightness output: The brightness can reach 300 cd/m², ensuring good readability under indoor environmental conditions, suitable for indoor and outdoor environments.

Wide temperature operating range: CH280QV22F has an operating temperature range of -20°C to +70°C, enabling it to operate stably in a variety of extreme environments to meet the needs of industrial and consumer electronics.

Multi-interface support: The module supports multiple interface types such as SPI, MCU and RGB, providing flexible connection options, convenient compatibility with different controllers, and adapting to diverse application needs

Technical Parameters:

Resolution	240x320 Dots
FPC Pin Numbers	50 Pins
Display Mode	IPS/Transmissive/Normally Black
Luminance	300 Cd/m2
Viewing Area Size	44.2*58.6 Mm
Storage Temperature	-30 ~ +80 °C
Contrast	800
Module Type	2.8" TFT
Module Size	50*69.2*2.4 Mm
Active Area Size	43.2*57.6 Mm



Customization:

The CH280QV22F display module offers a variety of customization options to meet the needs and application scenarios of different customers. Chenghao Optoelectronic is well aware of the uniqueness of each industry and project, so it provides flexible solutions in product customization.

First, FPC (flexible printed circuit board) customization is an important service of CH280QV22F. Customers can redesign the shape and structure of the FPC according to specific equipment requirements to ensure that it perfectly fits the installation environment. This customization can effectively solve the problem of space limitations, allowing the module to be smoothly integrated in a variety of compact devices.

Secondly, the customization of backlight brightness is also a major feature of CH280QV22F. The brightness of the standard module is 300 cd/m², but customers can choose different brightness levels according to actual application needs. For devices that need to be used in strong light environments, customers can choose a higher brightness backlight to ensure clear readability of the displayed content. This flexibility enables the CH280QV22F to adapt to various lighting conditions and is widely used in scenarios such as industrial control, medical equipment, and outdoor displays.

In addition, the CH280QV22F supports the customization of the module interface. Customers can choose the appropriate interface type according to the requirements of their controller, including SPI, MCU, and RGB. This diverse interface selection makes CH280QV22F compatible with different systems, meets a variety of application requirements, and improves the applicability of the product.

In terms of touch function, CH280QV22F also provides customized options for touch panels. Customers can choose capacitive or resistive touch solutions according to the different needs of the application scenario. Capacitive touch panels are suitable for applications that require high sensitivity and multi-touch, while resistive touch panels are more suitable for use in harsh environments, providing higher durability and reliability.

Finally, customization of packaging and transportation is also part of CH280QV22F. According to customer needs, Chenghao Optoelectronic can design packaging methods that meet specific requirements to ensure the safety and integrity of the product during transportation. This customization service not only improves the protection of the product, but also can be personalized according to the customer's brand needs to enhance the brand image.

In summary, the customization options of CH280QV22F cover multiple aspects such as FPC design, backlight brightness, interface type, touch panel, and packaging and transportation. This flexible customization capability enables the CH280QV22F to perform well in different industries and applications, meeting the diverse needs of customers and helping them achieve higher product value and user experience.

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, Rose, and SGS.

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

A: The minimum order quantity is 100 pcs.

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

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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