



## 2.25 Inch TFT LCD Display Module 76x284 SPI Interface High Brightness

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: CHENGHAO
- Certification: RoHS
- Model Number: CH225QV01A
- Minimum Order Quantity: 100
- Price: Negotiation
- Packaging Details: Standard export packaging
- Delivery Time: 3-7 working days
- Supply Ability: 300,000 pieces/month



### Product Specification

- Display Resolution: 240 X 320
- Brightness: 500 Cd/m<sup>2</sup>
- Touch Screen: Optional
- Interface Type: SPI
- Driver IC: ST7789V
- Operating Voltage: 3.3V
- Active Area: 14.80 X 55.29 Mm
- Pixel Pitch: 0.173 X 0.173 Mm
- FPC Pins: 8
- Viewing Direction: 12 O'clock
- Operating Temp: -20~+70
- Storage Temp: -30~+80
- RoHS: Yes
- Certification: RoHS



### More Images



## Product Description

### 1. Product Description

CH225QV01A is a 2.25 inch a-Si TFT LCD module with QVGA resolution of 76x284 pixels, designed for compact wearable and portable electronic devices. Typical brightness is 500 cd/m<sup>2</sup>, providing sunlight readability for outdoor applications.

The module uses the \*\*\* driver IC with a 4-wire SPI serial interface, compatible with most [microcontrollers](#) at low pin count. Operating temperature range is -20°C to +70°C, storage range is -30°C to +80°C. The module is RoHS compliant and measures 17.90 x 62.50 mm.

### 2. Features

- 2.25 inch diagonal a-Si TFT active matrix display with 76\*284 resolution
- High brightness of 500 cd/m<sup>2</sup> (typ.) for excellent sunlight readability
- SPI 4-wire serial interface for easy and fast communication with MCUs
- 12 o'clock optimal viewing direction for portrait-oriented applications
- Wide operating temperature range: -20°C to +70°C
- Low power LED backlight design suitable for battery-powered devices
- Thin profile and lightweight construction for portable device integration
- Transmissive / Normally White polarizer mode for clear image quality
- RoHS compliant, meeting environmental protection requirements

### 3. Technical Parameters

Parameter	Specification
Size	2.25 inch
Resolution	76x284
Active Area	14.80 x 55.29 mm
Module Size	17.90 x 62.50 mm
Brightness	500 cd/m <sup>2</sup> (typ.)

### 4. Customization

FPC customization, touch panel integration (RTP/CTP), cover lens available.

### 5. Support

Complete datasheet, initialization code, sample support, technical support provided.

### 6. FAQ

**Q: What is the resolution of the CH225QV01A display?**

A: The CH225QV01A has a QVGA resolution of 76\*284 pixels, providing sharp image quality suitable for text, icons, and basic graphics.

**Q: What interface does this module use?**

A: It uses a 4-wire SPI serial interface, which makes it easy to connect with most microcontrollers using just 4 control lines (CS, SCL, SDA, RS).

**Q: Is this display suitable for outdoor use?**

A: Yes, with a typical brightness of 500 cd/m<sup>2</sup>, the display offers good sunlight readability, making it suitable for outdoor applications.

**Q: What is the operating temperature range?**

A: The operating temperature range is -20°C to +70°C, with a storage range of -30°C to +80°C, ensuring reliable performance in various environments.

**Q: Can the FPC connector be customized?**

A: Yes, ChengHao offers customization options for the FPC including length, pin assignment, and connector type to match your PCB design.

**Q: Can a touch panel be added to this display?**

A: Yes, we can integrate either a capacitive touch panel (CTP) or resistive touch panel (RTP), or a cover lens for protection as needed.



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