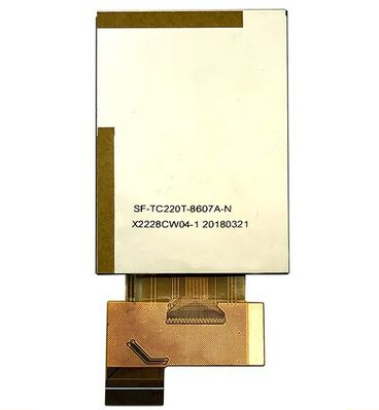
2.2 Inch 240x320 Resolution TFT LCD Display with 18 Bits Interface and ST7789V Driver

Our Product Introduction

Basic Information

Product Specification

- Interface Types: RGB 18bits
- Connectivity: Plugging
- Luminance: 300 Cd/m2
- Pin Number: 39 PIN
- Lcd Type: IPS
- Touchscreen: Customized
- Viewing Angle: 12 O'clock
- Resolution: 240x320 Pixels



Product Description

2.2 Inch 240x320 39 Pin ST7789V 18 Bits Interface TFT LCD Display

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Product Specifications

Product:	2.2" QVGA RGB TFT LCD
Resolution:	240x320 Pixels
Touch Screen:	Without Touch Screen
Viewing Direction:	12 O'clock
Interface:	RGB 18bits
Pin Number:	39 Pins
Connection:	Plugging
Surface Luminance:	300 Cd/m2
Operating Temp.:	-20 To +70
Compliance:	REACH & RoHS Compliant

Product Core Introduction

This is a 2.2-inch TFT color liquid crystal display module with QVGA resolution (240×320 pixels). It adopts a 39-pin interface design. The core driver chip is ST7789V, which supports 18-bit RGB (666) color interface and can display 262K colors.

Display Parameters

- Size: 2.2 inches
- Resolution: 240 (RGB) × 320 pixels (QVGA)
- Driver Chip: Sitronix ST7789V, with built-in memory (GRAM)
- Color: 18-bit interface, supports 262K colors (RGB666)
- Brightness: Typical value 200~300 cd/m² (can be customized to higher brightness)
- Backlight: White LED backlight, with a lifespan of approximately 40,000 hours
- Interface: 39-pin, 18-bit parallel interface (MCU 8080), also compatible with SPI serial mode
- Viewing Angle: 12 o'clock direction (full viewing angle / wide viewing angle)
- Operating Voltage: 3.3V (compatible with 5V microcontroller system)

Structure and Interface

Uses FPC flexible ribbon cable (39Pin) plug-in interface, compact in size, easy for embedded installation.

Interface includes: data bus (D0~D17), control signals (CS, DC, WR, RD, RST), backlight control (BL/BLK), power supply (VDD, VCC, GND), etc.

The module is small in size, with a thin thickness (about 2.0~2.35mm), suitable for devices with limited space.

Main Applications and Usage Scenarios

This screen is widely used in embedded, industrial, medical, consumer electronics fields due to its small size, moderate resolution, mature driver, stable and reliable performance, and low cost:

Industrial Control and Instrumentation

- Industrial HMI human-machine interface, small control panels
- Handheld measurement devices (multimeters, oscilloscopes, thermometers)
- Sensor display modules, industrial transmitters

Medical Health Equipment

- Portable detectors (oxygen sensors, blood glucose meters, electrocardiogram devices)
- Beauty equipment, home health monitoring devices

Consumer Electronics and Smart Products

Smart bracelets, watches, sports cameras, dash cams

Smart home control panels, access control / intercom systems

MP3/MP4, early education devices, game consoles, toy screens

Vehicle and Security

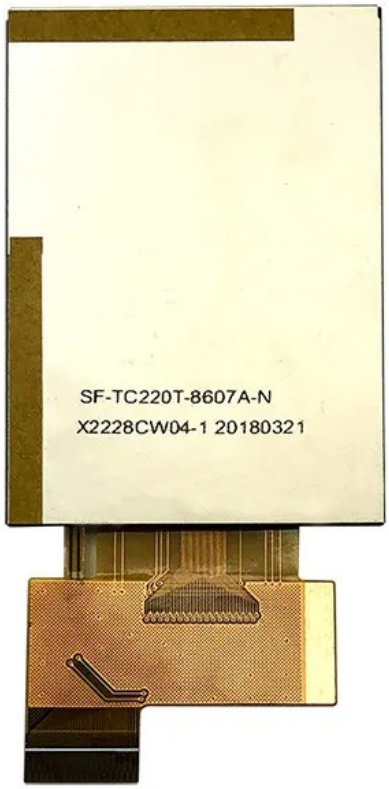
Vehicle rearview mirrors, reverse radar displays

Small security monitoring, doorbell displays

Embedded Development and DIY

Arduino, STM32, ESP32 development board learning kits

Maker projects, DIY electronic works (such as mini TVs, oscilloscopes)



Frequently Asked Questions

I want the LCD display 8 digits and the outline size is 65x30x2.8mm?

No problem. Firstly, please kindly send us your specification/ drawing paper. If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.

For the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.

This LCD display is HTN type, but I want STN type, can you make?

That's all right. We can change for you as per you request.

I want customize a new LCD module. Can you do?

Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.

What is leading time for tooling?

General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.

Can you send us samples for checking?

Yes. Samples order is available.

What is the Leading Time?

If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. suppose we can finish earlier, we will report the information in advanced.

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