

## 2.2 Inch TFT LCD Touch Screen with 176x220 Resolution and Resistive Touch for Industrial Applications

### Basic Information



### Product Specification

- Viewing Angles: All
- Tft Interface: MPU 8/16 Bits
- Display Type: TFT LCD
- Panel Size: 2.2 Inch(diagonal)
- Driver Ic: Industrial ILI2511
- Touch Screen Type: Resistive Touch Screen
- Pin: 34
- Resolution: 176x220
- Highlight: **2.2 Inch TFT LCD Touch Screen ,  
176x220 Resolution TFT LCD Display Module,  
Resistive Touch Screen**



## Product Description

### 2.2" MCU 8bits 16bits Interface with Rtp TFT LCD Display

High-performance 4-inch TFT LCD module with resistive touch panel, designed for industrial and embedded applications.

#### Technical Specifications

Product	2.2 Inch TFT Screen
Resolution	176x220
Driver IC	ILI9225G Or Equivalent
Outline Dimensions	40.3x55.26x3.4 (mm)
Touch Screen	With Touch Screen (Optional)
Cover Glass	Customizable
Viewing Direction	6 O'clock
Interface	MPU 8/16 Bits
Connection	Soldering (customizable)
Pin Number	34 Pins
Surface Luminance	250 Cd/m <sup>2</sup> (nits)
Backlight Type	White LED

#### Product Overview

This compact full-color display with integrated touch input offers a complete solution for embedded applications. The 2.2-inch diagonal TFT LCD panel features either 240×320 pixels (mainstream) or 176×220 (QCIF) resolution. The resistive touch layer supports precise operation with fingers, nails, or dedicated touch pens, functioning reliably even with gloves or in contaminated environments.

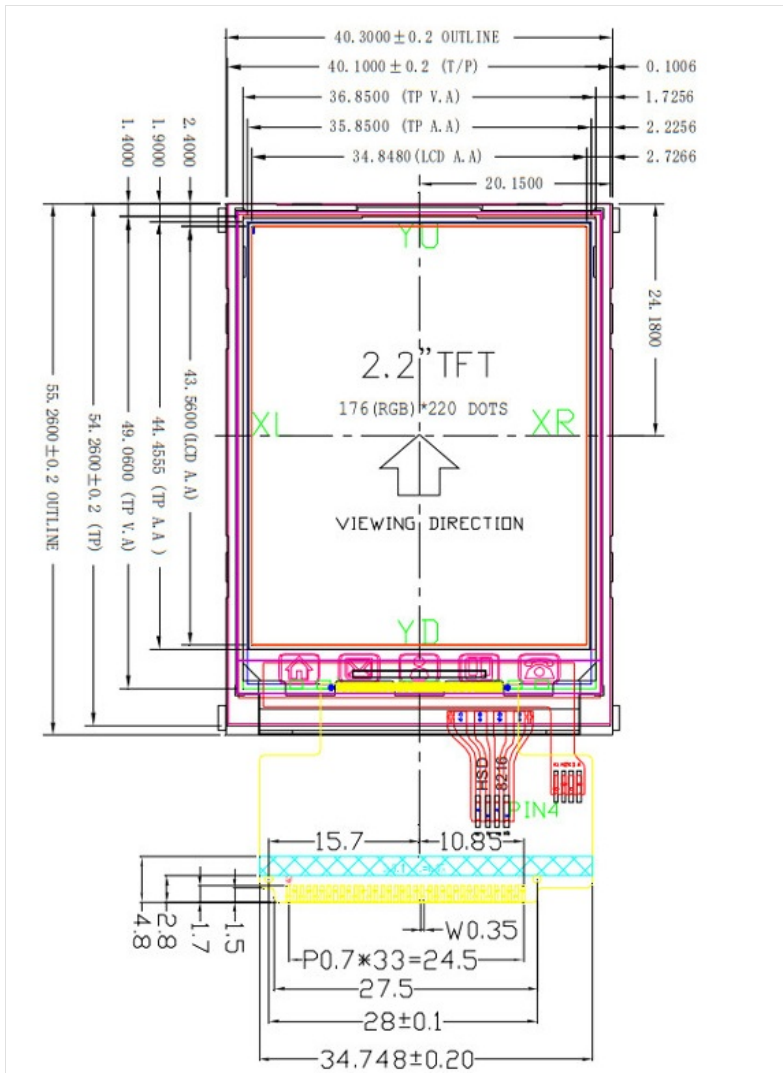
The module utilizes mature driver solutions like ST7789V and ILI9225G, supporting 8-bit/16-bit parallel buses (8080 timing) for direct connection to embedded controllers including STM32, 51 microcontrollers, Arduino, and ESP32. The integrated LED backlight provides 200-300 cd/m<sup>2</sup> brightness with 3.3V operating voltage and excellent power efficiency across a wide temperature range of -20°C to 70°C.

#### Core Features

- High compatibility with 8/16-bit MCU parallel interfaces
- Stable resistive touch performance in dry and low-temperature environments
- Compact design with 2-3mm module thickness
- Low power consumption with wide operating temperature range

#### Application Scenarios

- Industrial control and instrumentation
- Medical and health equipment
- Vehicle electronics and dashboards
- Smart home and handheld terminals
- Embedded development and maker projects



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

No problem. Please send us your specification/drawing paper. If you don't have specifications, you can provide samples; we will recommend suitable standard products or customize based on your requirements.

**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 segment type LCD modules, modifying outline size or display content requires a new LCD glass module. We will create new tooling for your requirements.

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

Yes, we can change the display type according to your request.

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

Yes, we can customize LCD modules. Please send your drawing paper or provide outline size, display information (glass thickness, polarizer, display type, connector mode, storage temperature, operating temperature, supply voltage, viewing direction, drive conditions).

**What is leading time for tooling?**

Typically, tooling takes 15 to 25 days after drawing paper confirmation and tooling charge payment. We will provide exact timing upon drawing confirmation.

**Can you send us samples for checking?**

Yes, sample orders are available.

**What is the Leading Time?**

For standard products in stock, lead time is one day after payment. For mass production of special orders, lead time is approximately 15-30 days. We will notify you if we can complete earlier.



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