



## 3.5 Inch 320x480 Pixels TFT LCD Touch Screen Display with Capacitive Touch Panel

Our Product Introduction

### Basic Information



### Product Specification

- Pixel Arrangement: SPI
- Display Type: TFT
- Luminance: 300cd/m<sup>2</sup>
- Outline Dimension: 54.48(H)x84.71(V)x3.40(T) (mm)
- Operation Temp: -20 ~ +70
- Fpc: 40 Pin
- Productname: TFT LCD Touch Screen
- Operation Temperature: -20°C ~ +70°C
- Highlight: **3.5 Inch TFT LCD Touch Screen ,  
320x480 Pixels TFT LCD Display,  
Capacitive Touch Panel Touch Screen Display**



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## Product Description

### 3.5 Inch LCD Touch Screen 320x480 Pixels TFT LCD Display

High-performance 3.5-inch TFT LCD touch screen display with capacitive touch panel, designed for industrial and embedded applications.

#### Basic Parameters

Product	3.5 Inch TFT LCD Touch Screen
Resolution	320x480 HVGA
Interface	MCU 8/16BIT, SPI 3/4wire
Pin Number	40pins
Viewing Direction	12 O'clock
Surface Luminance	300 Cd/m <sup>2</sup> (nits)
Outline Dimensions	54.48(H)x84.71(V)x3.40(T) (mm)
Active Area	48.96(H)x73.44(V) (mm)
Touch Screen	With Capacitive Touch Panel
CTP Driver	FT6336U
Driver IC	ILI9488
Connection	Plugging
Operating Temperature	-20°C To +70°C
Storage Temperature	-30°C To +80°C

#### Interface Pin Definition

Pin No.	Symbol	Function
1	XL	Touch the left line
2	YU	Touch the upper circuit
3	XR	Touch the right end line
4	YD	Touch the lower line
5	GND	Ground
6	IOVCC	Power Supply 1.8V
7	VCC	Power Supply 2.8V
8	FMARK	Frame synchronization signal
9	CS	Chip select input pin (active low)
10	RS	Display data/command selection pin in parallel
11	WR/SPI_SCL	Write enable in 8080 MCU parallel interface / SCL pin as Serial Clock
12	RD	Read enable in 8080 MCU parallel interface
13	SPI_SDA	Serial data input/output bi-direction pin
14	SPI_SDO	Serial data output
15	RESET	External reset input
16	GND	Ground
17-32	DB0-DB15	MCU parallel interface data bus

33	LEDA	LED back light(Anode)
34-36	LEDK	LED back light(Cathode)
37	GND	Ground
38	IM0	Select the interface mode
39	IM1	Select the interface mode
40	IM2	Select the interface mode

### Product Details

This cost-effective 3.5-inch TFT LCD touch screen module utilizes thin-film transistor technology, offering an optimal balance between portability and clear visibility. The 320×480 HVGA resolution delivers vibrant 65K/262K color display capabilities with precise capacitive touch functionality.

The display supports both SPI serial and MCU parallel interfaces: SPI requires only 4 wires for communication, conserving microcontroller IO pins for compact devices, while the MCU parallel interface enables faster data transmission for rapid screen refresh rates. With brightness exceeding 300 cd/m<sup>2</sup> and operating temperature range of -20°C to 70°C, this display provides reliable performance in demanding environments and meets RoHS and CE certifications.

### Core Applications

**Industrial Control and Instrumentation:** Human-machine interfaces for PLCs, frequency converters, and measurement terminals with touch parameter setting and operation curve viewing

**Smart Home and Security:** Display touchscreens for smart gateways, HVAC control panels, video intercoms, and monitoring devices

**Embedded Development and Maker Projects:** Popular display for Arduino and STM32 development boards in handheld consoles, GPS devices, and smart home prototypes

**Medical Portable Devices:** Applications in blood pressure monitors, oximeters, and ECG monitors for clear physiological data display

**Vehicle Auxiliary Equipment:** Instrument panels for motorcycles, agricultural machinery, and in-vehicle entertainment systems with vibration and temperature stability





## Frequently Asked Questions

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

Please provide your specifications or drawing. If unavailable, send samples and we'll 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 requiring size or content modifications, new tooling is necessary for custom LCD glass modules.

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

Yes, we can modify the display type according to your specifications.

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

We provide complete customization services. Please provide drawings or specifications including outline size, display information, glass thickness, polarizer type, connector mode, temperature ranges, supply voltage, viewing direction, and drive conditions.

### What is leading time for tooling?

Tooling typically requires 15-25 days after drawing confirmation and payment. Exact timelines are provided upon drawing approval.

### Can you send us samples for checking?

Yes, sample orders are available for evaluation.

### What is the Leading Time?

Standard products in stock ship within one day after payment. Mass production for custom orders typically requires 15-30 days, with earlier completion notifications when possible.



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