

3.5-inch TFT LCD with Resistive Touch Panel 320×480 16-bit Parallel Interface

Basic Information



Product Specification

- Backlight Type: LED
- Surface Luminance: 300 Cd/m² (typical)
- Overall Dimensions: 54.48*84.71*3.25 Mm
- Viewing Direction: 12 O'clock
- Storage Temperature: -30°C To 80°C
- Screentype: TFT LCD
- Contrast Ratio: 250:1
- Touch Screen: With Resistive Touch Panel
- Highlight: **3.5-inch TFT LCD resistive touch screen ,
320x480 resolution TFT LCD panel ,
16-bit parallel interface LCD screen**



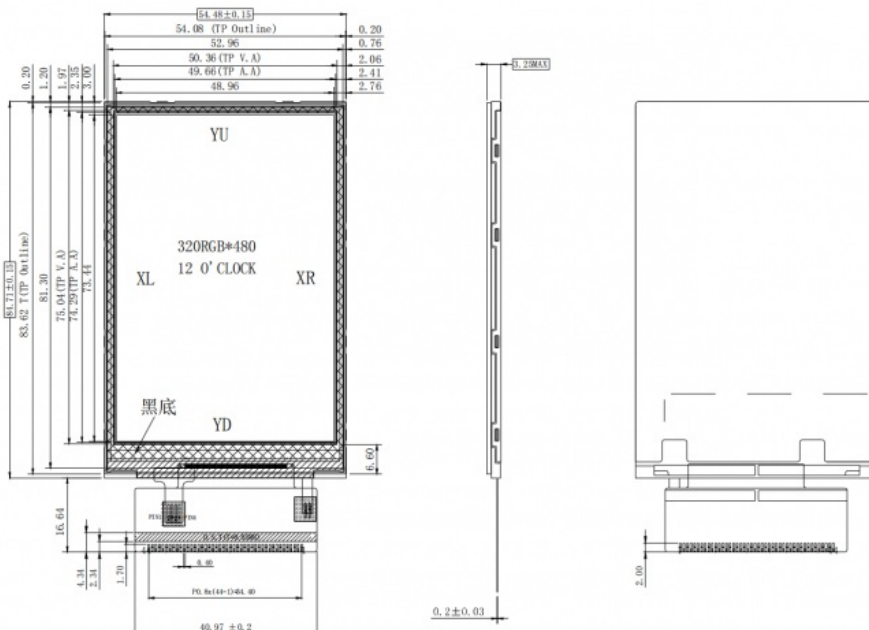
Product Description

3.5-inch TFT LCD with Resistive Touch Panel 320×480 16-bit Parallel Interface

Description

Product:	3.5 Inch TFT LCD	Resolution:	320 × 480 Pixels (RGB)
Interface:	16-bit Parallel (DBI Type B)	Outline Dim.:	54.48*84.71*3.25 Mm
Viewing Direction:	12 O'clock	Touch Screen:	With Resistive Touch Panel
Driver IC:	ILI9488	Contrast Ratio:	250:1
Touch Durability:	1,000,000+ Input Cycles	Surface Luminance:	300 Cd/m ² (typical)
Operating Temp.:	-20 To +70	Compliance:	REACH & RoHS Compliant

Mechanical Dimensions



Interface Pin Definition

NO.	PIN NAME	I/O	Description
1	GND	I	Power Ground
2	LED-K6	I	LED Cathode
3	LED-K5	I	LED Cathode
4	LED-K4	I	LED Cathode
5	LED-K3	I	LED Cathode
6	LED-K2	I	LED Cathode
7	LED-K1	I	LED Cathode
8	LED-A	I	LED Anode
9	GND	I	Power Ground
10	GND	I	Power Ground
11	VCC	I	2.8V Power Source
12	/RESET	I	Reset Signal Pin
13	GND	I	Power Ground
14	GND	I	Power Ground
15--30	DB15-DB0	I/O	Data Signal
31	/RD	I	Read strobe signal input pin
32	/WR	I	Write strobe signal input pin
33	RS	I	Register select signal
34	CS	I	Input pin for chip selection signal
35	GND	I	Power Ground
36	IOVCC	I	1.8V~2.8V Power Source
37	GND	I	Power Ground
38	GND	I	Power Ground
39	YD	I	Touch Panel Pin
40	XR	I	
41	YU	I	
42	XL	I	
43	GND	I	Power Ground

Product Overview

This is a 3.5-inch TFT LCD resistive touch screen module with a resolution of 320×480. It adopts a 16-bit parallel interface (MCU 8080), and is equipped with a built-in driver chip (commonly ILI9488/ST7796) and a resistive touch chip (XPT2046). It supports 65K color display and comes with a PCB base plate. It can be directly adapted to development boards such as STM32 and Arduino, and is a commonly used human-machine interaction interface (HMI) solution in embedded systems.

Core Features

Display Performance: 3.5 inches, 320×480 pixels, TFT true color, 65K colors (16bit RGB), brightness approximately 300 cd/m², supports landscape/vertical screen switching.

Touch Type: Resistive touchscreen, supports pressure sensing, can be operated by pen tip / finger / glove, highly resistant to interference, suitable for industrial and complex environments.

Interface Specifications: 16-bit parallel interface (8080 timing), fast data transmission, low refresh delay; compatible with 3.3V/5V levels, compatible with STM32, C51, Arduino, etc. platforms.

Physical Parameters: Shape approximately 55×85mm, thickness approximately 3–4mm, operating temperature ** -20 ~70 **, industrial-grade stability.

Driver and Touch IC: Common LCD drivers include ILI9488/ST7796, touch control is XPT2046, provides complete routines and driver code.

Main purpose

Industrial Control HMI: Used for PLCs, industrial control computers, and equipment control panels, it displays parameters, status, and alarms, and supports on-site button/touch operations.

Embedded Development and DIY: Display and interaction interfaces for STM32/Arduino projects (such as intelligent terminals, data collectors, simple oscilloscopes).

Medical Equipment: Portable detectors, monitors, blood glucose meters, etc., display vital signs and test data.

Smart Home Appliances and IoT: Smart control panels, environmental monitors, home central control in smart homes, achieving status display and touch operation.

Consumer Electronics: Portable players, electronic dictionaries, handheld devices, providing color display and touch input.

Vehicle and Security: Vehicle diagnostic instruments, access control terminals, attendance machines, suitable for low-power consumption and stable operation scenarios.

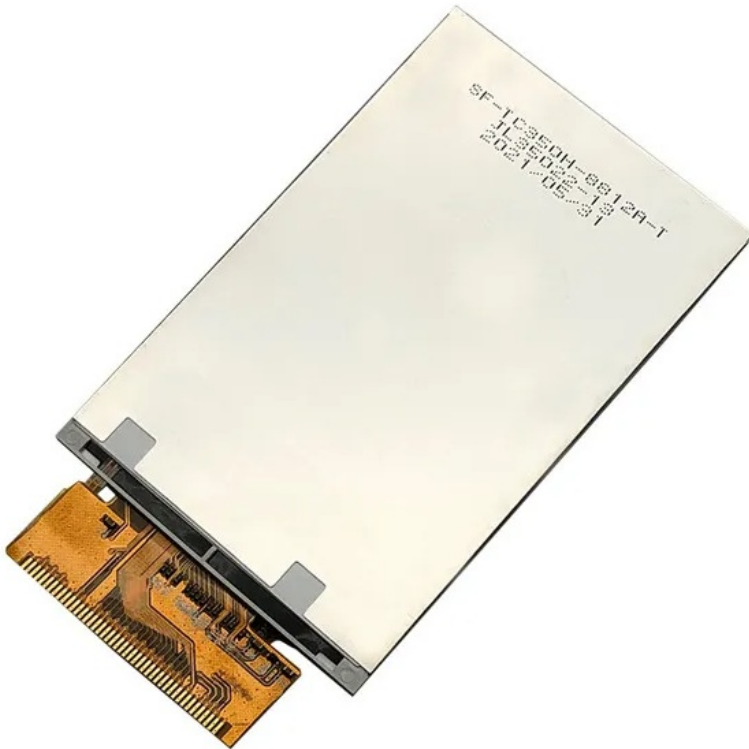
Summary of Advantages

16-bit parallel port: Fast refresh, strong real-time performance, suitable for dynamic interfaces.

Resistive touch: Strong environmental adaptability, reliable in industrial scenarios.

High compatibility: Plug-and-play, rich routines, short development cycle.

Industrial-grade stability: Wide temperature range, anti-interference, suitable for harsh environments.





FAQ:

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

Answer: 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.

2.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.

Answer: 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.

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

Answer: That's all right . we can change for you as per you request.

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

Answer: 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.

5. What is leading time for tooling?

Answer: 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.

6. Can you send us samples for checking?

Answer: Yes,. Samples order is available.

7. What is the Leading Time?

Answer: 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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