

# 3.5inch SPI Module ILI9488 SKU:MSP3520

From LCD wiki



## Product Picture



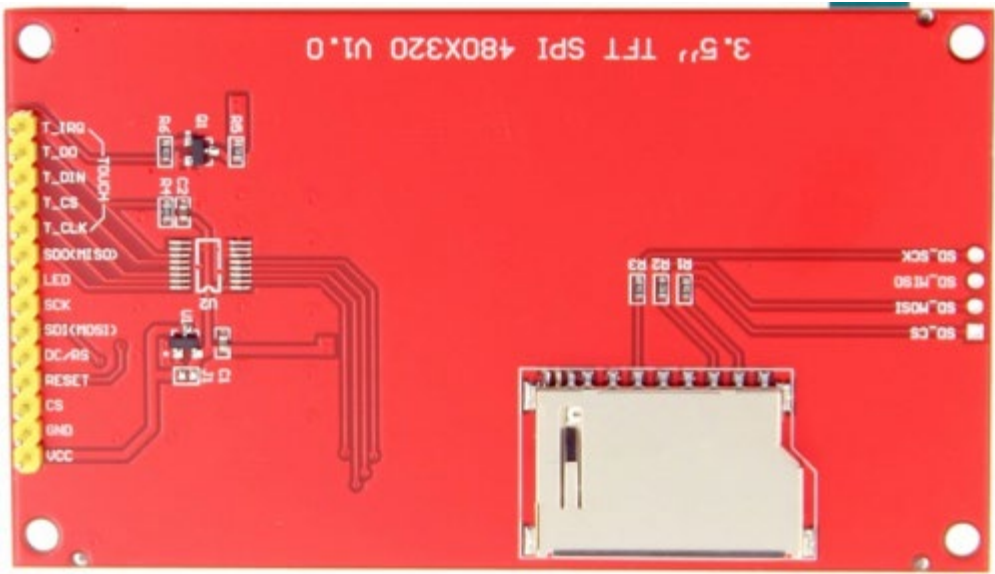
## Product Description

3.5-inch color screen, support 65K color display, display rich colors  
480X320 resolution, optional touch function  
Using the SPI serial bus, it only takes a few IOs to illuminate the display  
Easy to expand the experiment with SD card slot  
Provide a rich sample program  
Military-grade process standards, long-term stable work  
Provide underlying driver technical support

Product Parameters

Name	Parameter
Display Color	RGB 65K color
SKU	have touch screen: MSP3520
	have no touch screen: MSP3521
Screen Size	3.5(inch)
Type	TFT
Driver IC	ILI9488
Resolution	480*320 (Pixel)
Luminance	250Cd/m <sup>2</sup> (With touch)
	400Cd/m <sup>2</sup> (With touch)
Module Interface	4-wire SPI interface
Active Area (AA area)	48.96x73.44(mm)
Module PCB Size	56.34x98(mm)
Operating Temperature	-20°C~60°C
Storage Temperature	-30°C~70°C
VCC power voltage	3.3V~5V
Logic IO port voltage	3.3V(TTL)
Power Consumption	0.62W
Rough Weight(Package containing)	No touch: 45 (g) / With touch: 57 (g)

Interface Definition



Number	Pin Label	Description
1	VCC	5V/3.3V power input
2	GND	Ground
3	CS	LCD chip select signal, low level enable
4	RESET	LCD reset signal, low level reset
5	DC/RS	LCD register / data selection signal, high level: register, low level: data
6	SDI(MOSI)	SPI bus write data signal
7	SCK	SPI bus clock signal
8	LED	Backlight control, high level lighting, if not controlled, connect 3.3V always bright

9	SDO(MISO)	SPI bus read data signal, if you do not need to the read function, you can not connect it
(The following is the touch screen signal line wiring, if you do not need to touch function or the module itself does not have touch function, you can not connect them)		
10	T_CLK	Touch SPI bus clock signal
11	T_CS	Touch screen chip select signal, low level enable
12	T_DIN	Touch SPI bus input
13	T_DO	Touch SPI bus output
14	T_IRQ	Touch screen interrupt signal, low level when touch is detected

## Product Documentation

- 3.5 inch SPI Module User Manual
- 3.5 inch TFT Specifications
- 3.5 inch SPI Module Size Picture
- 3.5 inch SPI Module Schematic
- 3.5 inch QD3503 TFT LCD Schematic and PCB Package Library
- Driver IC ILI9488 Data sheet

## Program Download

- 3.5 inch SPI Module Package(ILI9488)

## Reference Materials

- Arduino IDE software use illustration
- C51 Keil and stc-isp software use illustration
- STM32 keil software use illustration
- PCtoLCD2002 software use illustration
- Image2Lcd software use illustration
- Chinese and English display modulo settings

## How to use on Arduino

- Module instructions for use on the Arduino

## Common Software

- PCtoLCD2002
- Image2Lcd
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