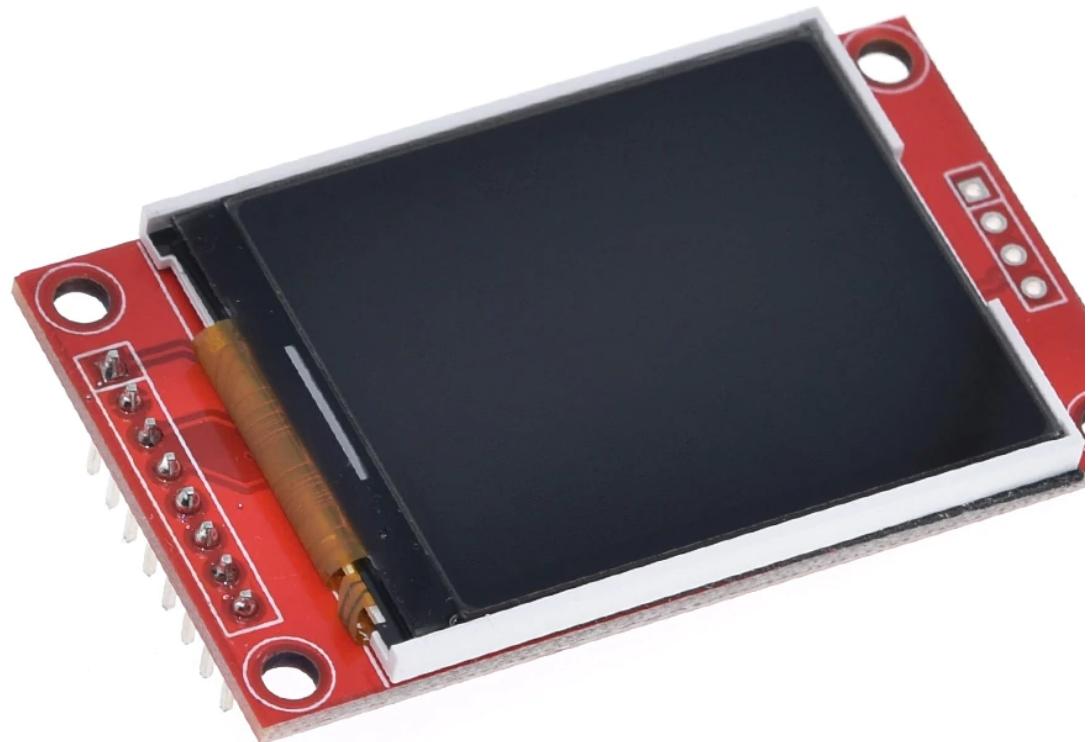


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## PRODUCT 2.4 SPI information

## Description

2.4-inch color screen, support 65K color display, display rich colors  
320X240 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

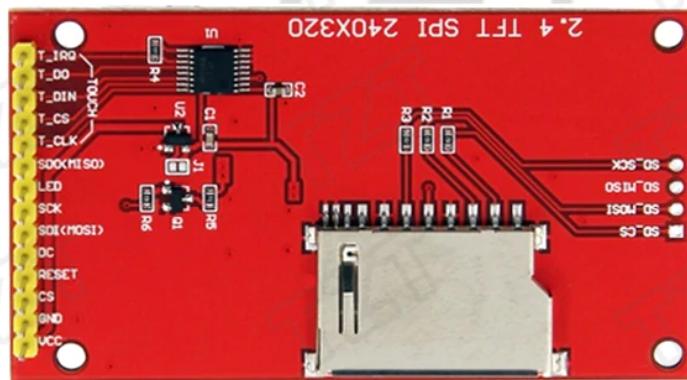
Military-grade process standards, long-term stable work

Provide underlying driver technical support

## Parameters

Name	Parameter
Display Color	RGB 65K color
SKU	have touch screen: MSP2402
	have no touch screen: MSP2401
Screen Size	2.4(inch)
Type	TFT
Driver IC	ILI9341
Resolution	320*240 (Pixel)
Module Interface	4-wire SPI interface
Active Area (AA area)	36.72x48.96(mm)
Module PCB Size	77.18x42.72(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	TBD
Rough Weight(Package containing)	No touch: 26(g) / With touch: 36(g)

## Interface Definition



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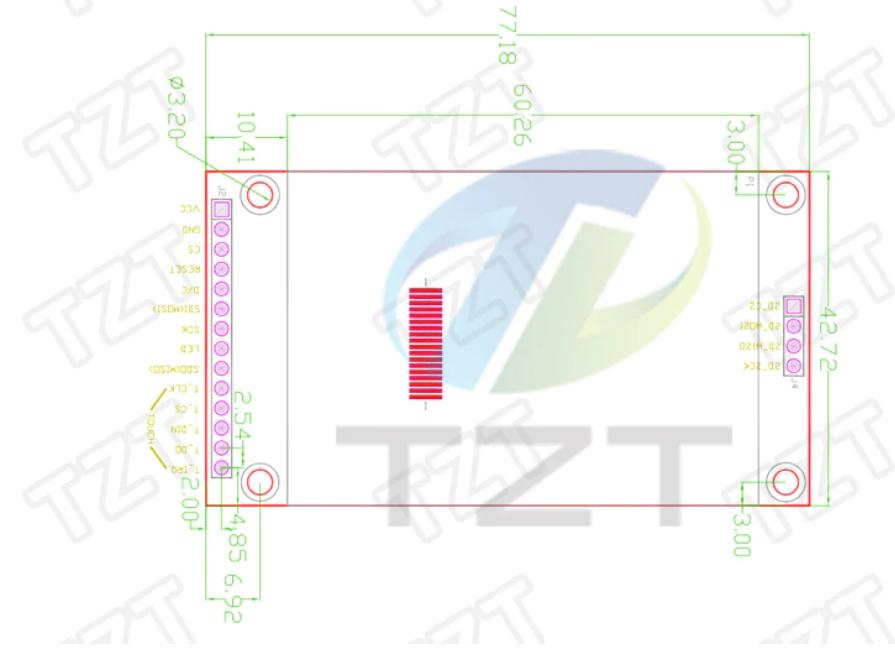
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1	VCC	5V/3.3V power input
2	GND	Ground
3	CS	LCD chip select signal, low level enable
4	RESET	LCD reset signal, low level reset
5	DC/RS	LCD register / data selection signal, high level: register, low level: data
6	SDI(MOSI)	SPI bus write data signal
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

## Dimensions and specifications



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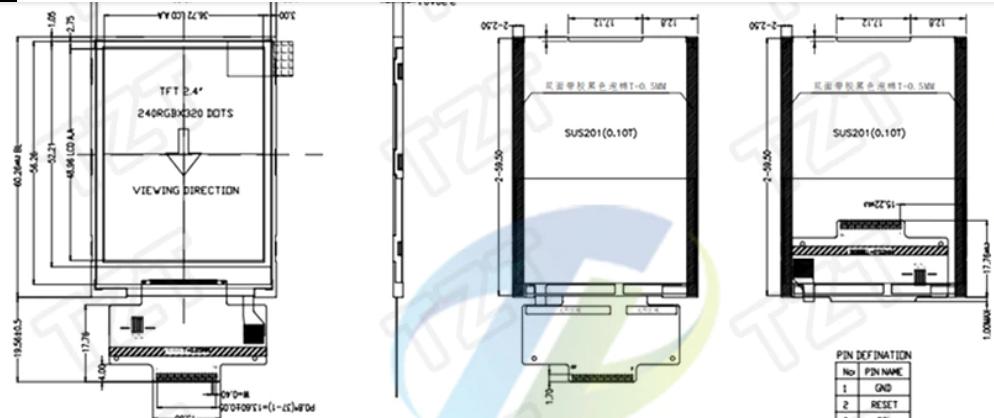
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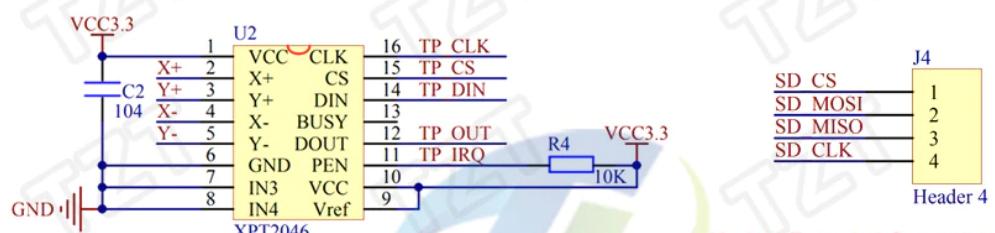
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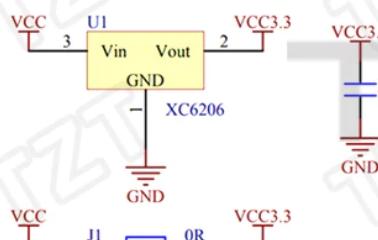
SPI 4W 8BIT

## Schematic diagram



Module Extended Output Interface  
(Extended output pin arrangement defaults not to weld)

### Touch Sampling Circuit



### Power supply selection:

J1 disconnects when external VCC inputs 5V  
J1 short connection when external VCC input 3.3

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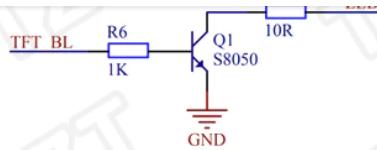
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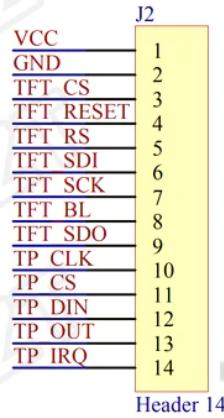
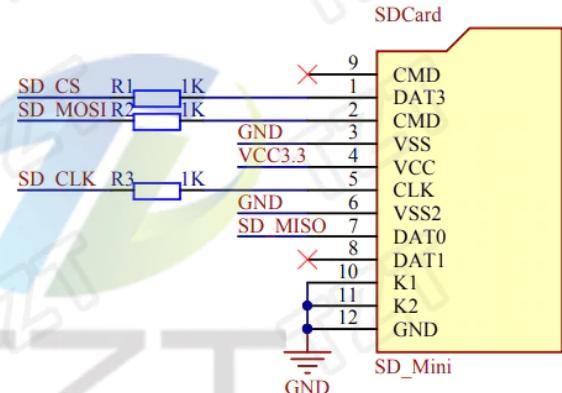
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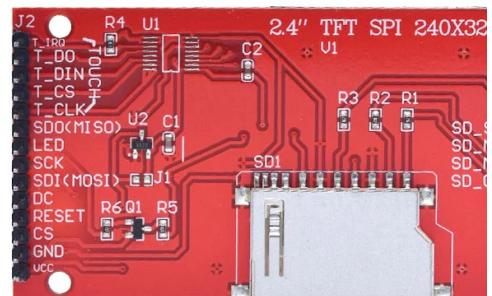
Backlight control circuit (IO or PWM control)

Modular Needle Arrangement  
Output Interface

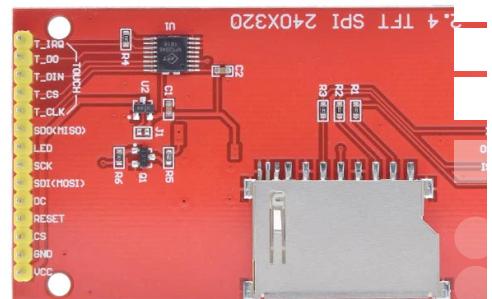
SD Card Interface Circuit



2.4 Non touch scre...



2.4 touch scre...

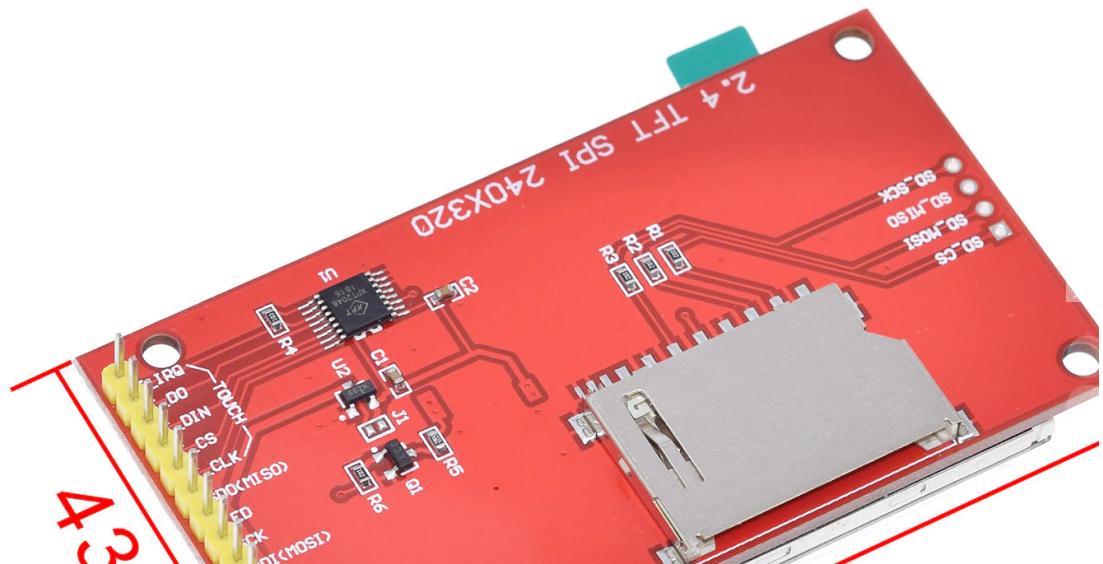
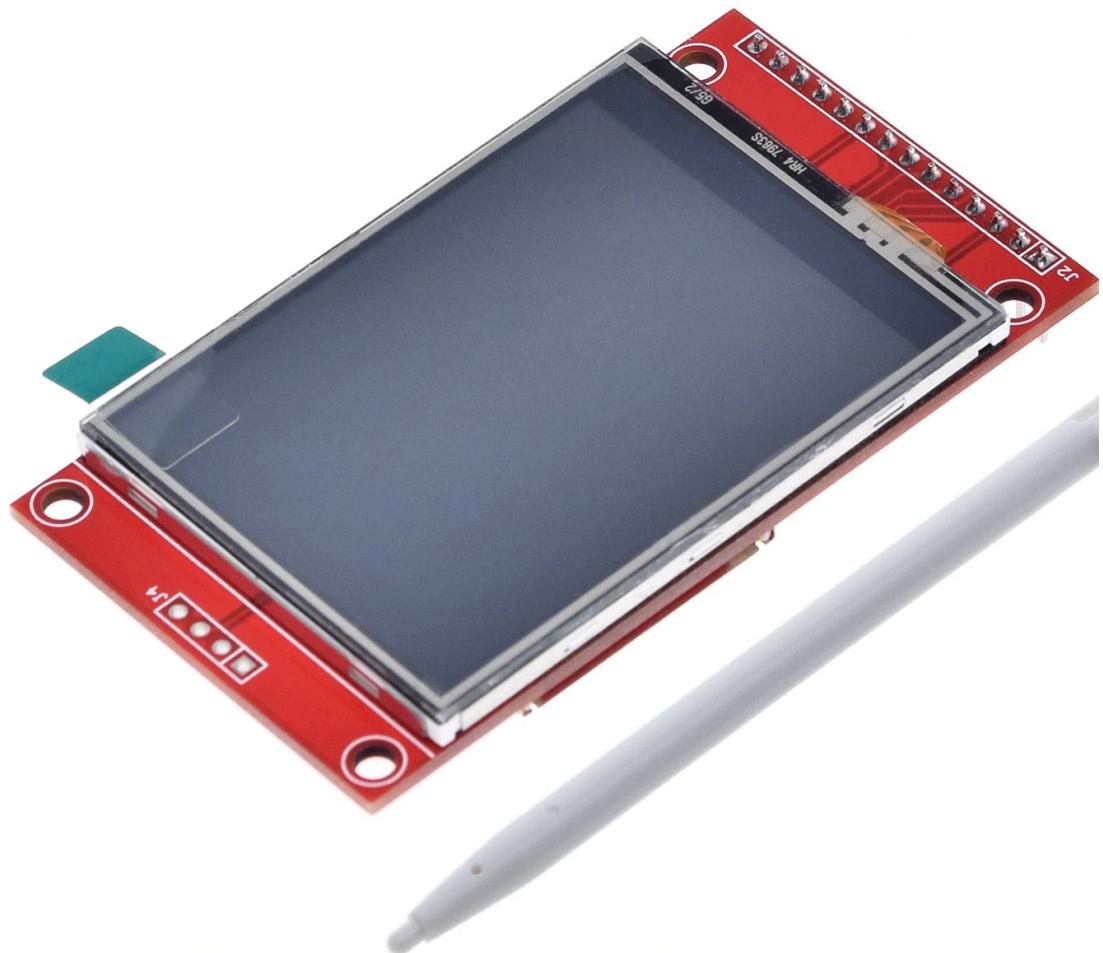


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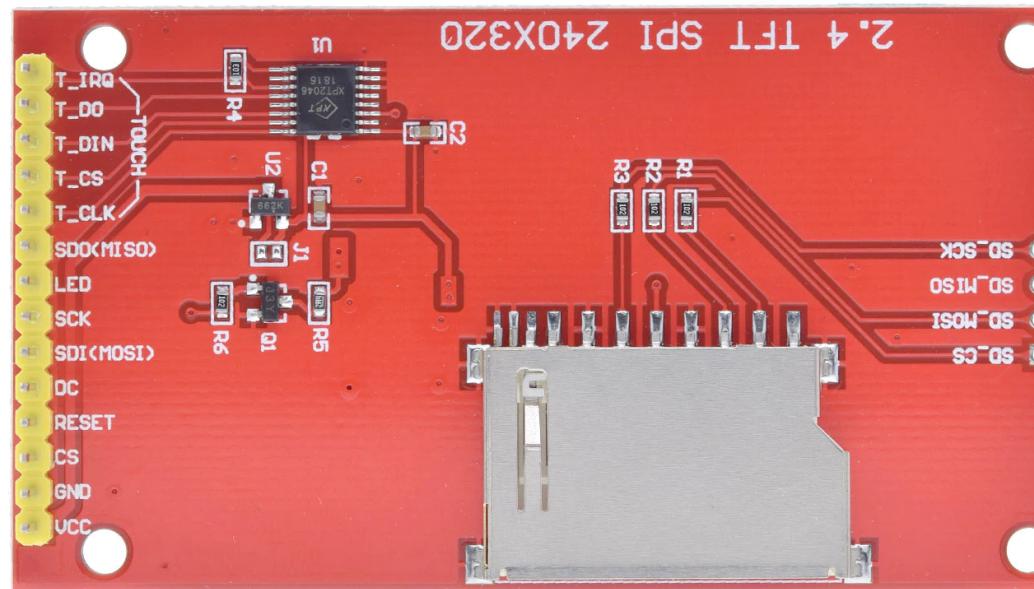
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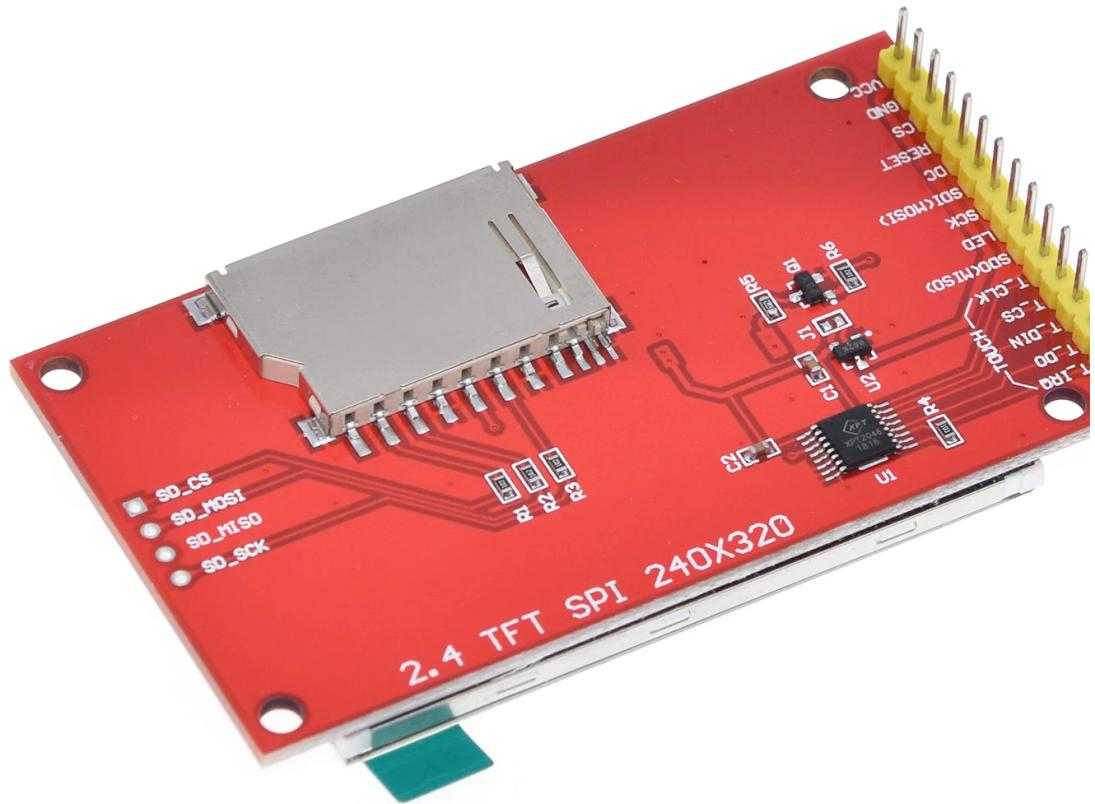
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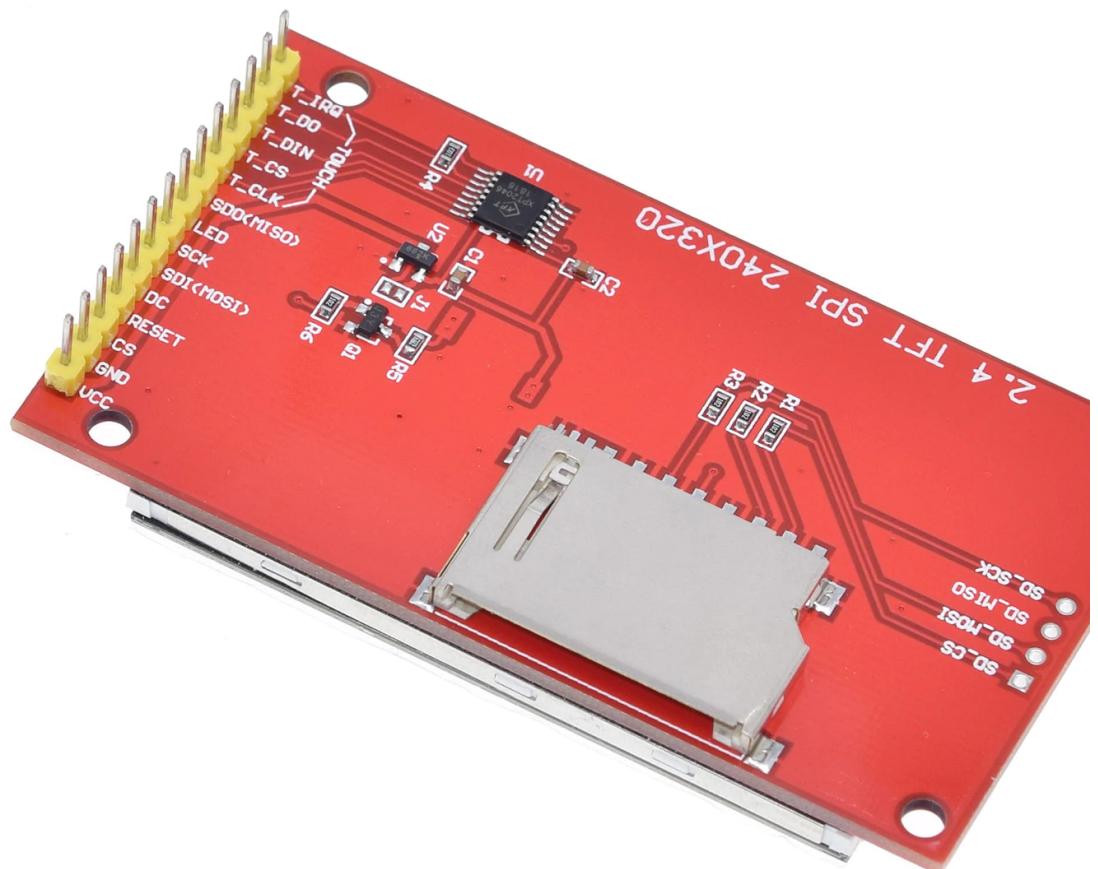
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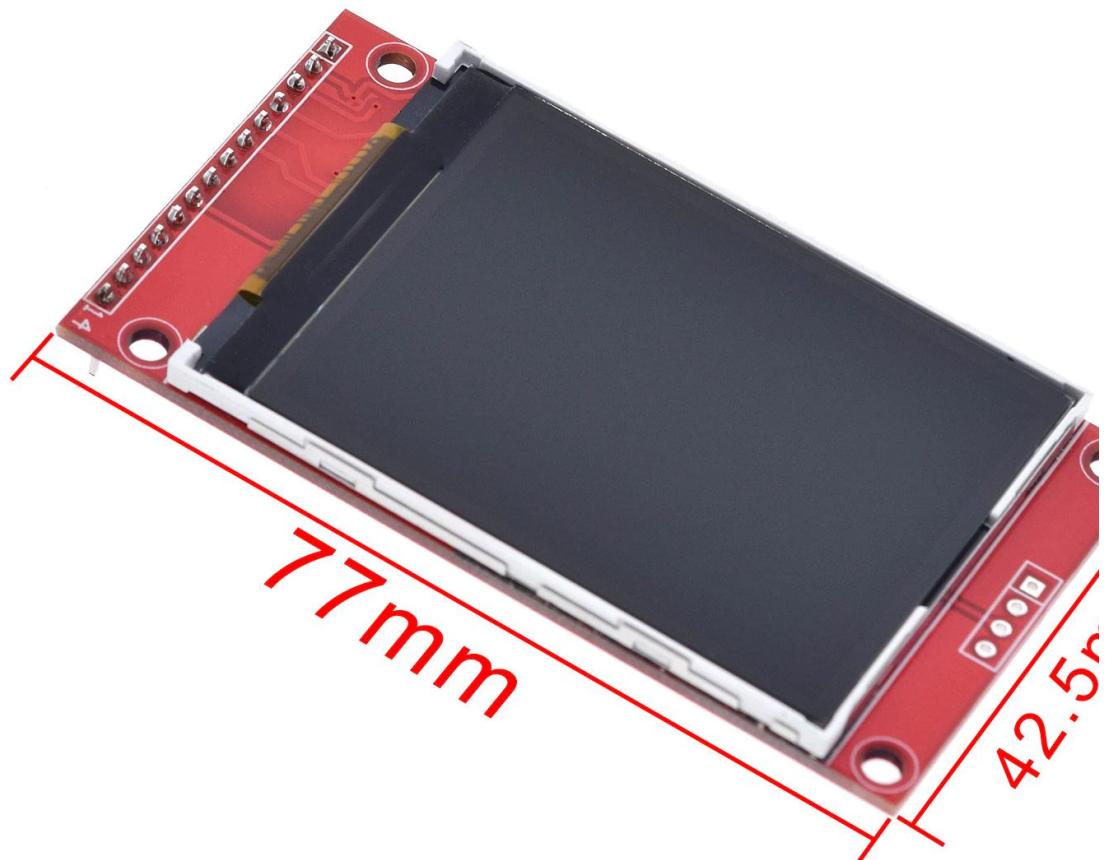
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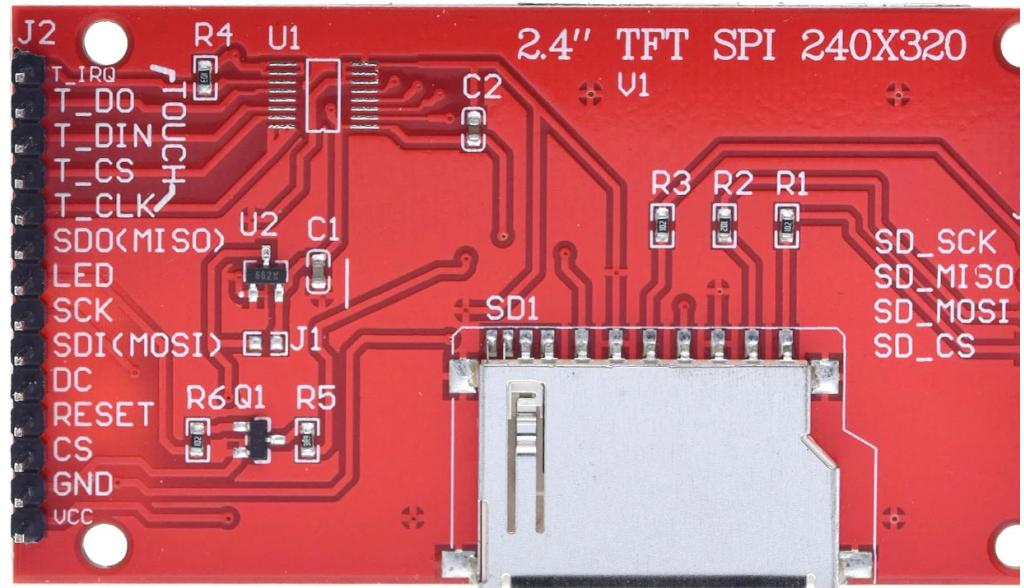


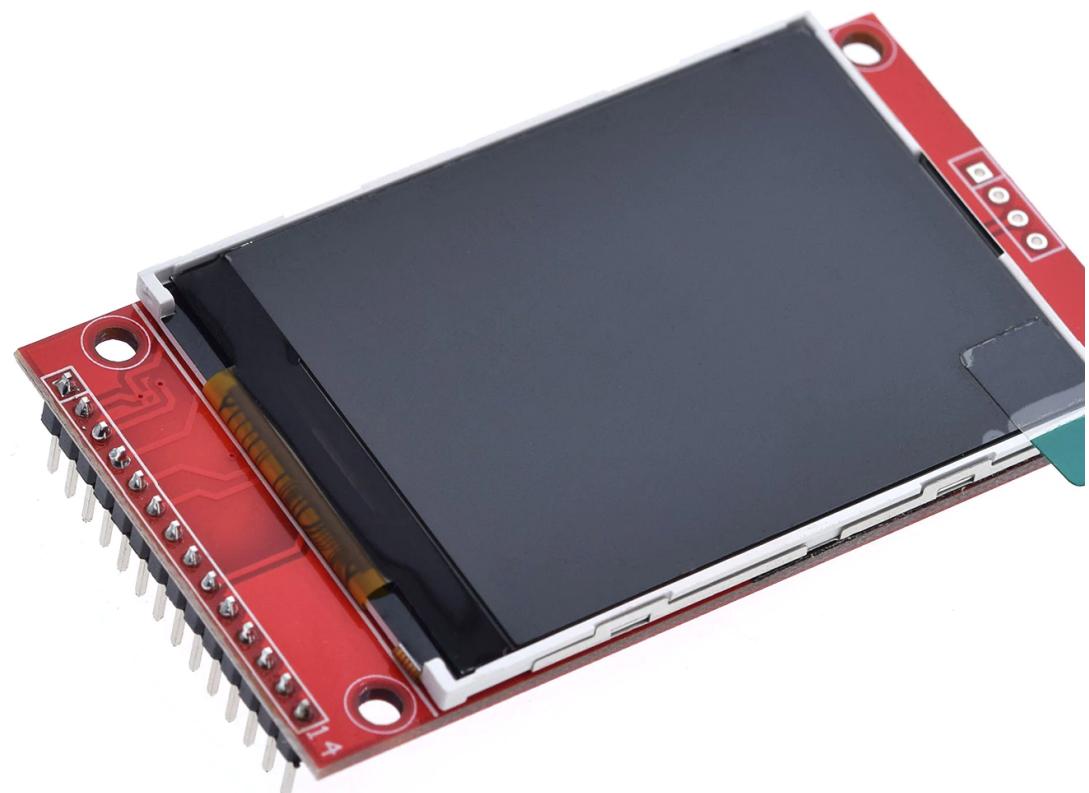
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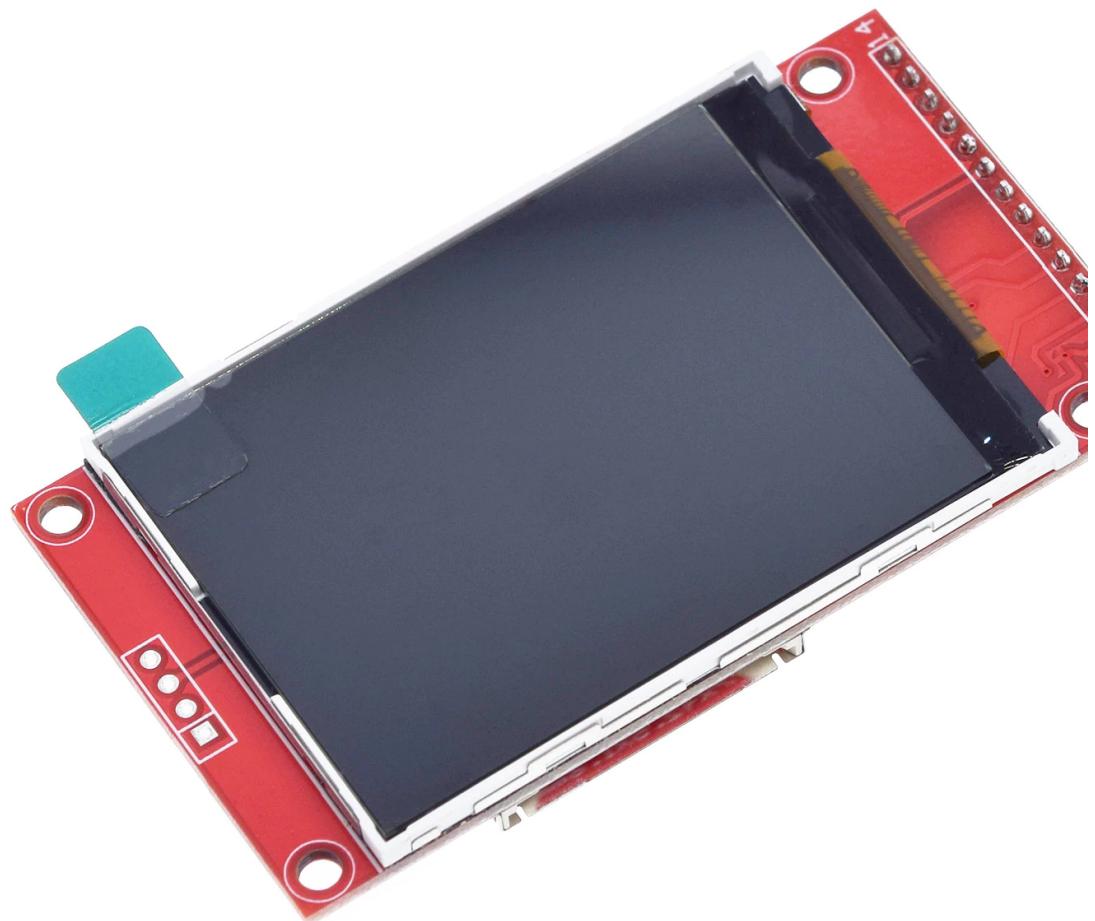
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# Non Touch Screen



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