

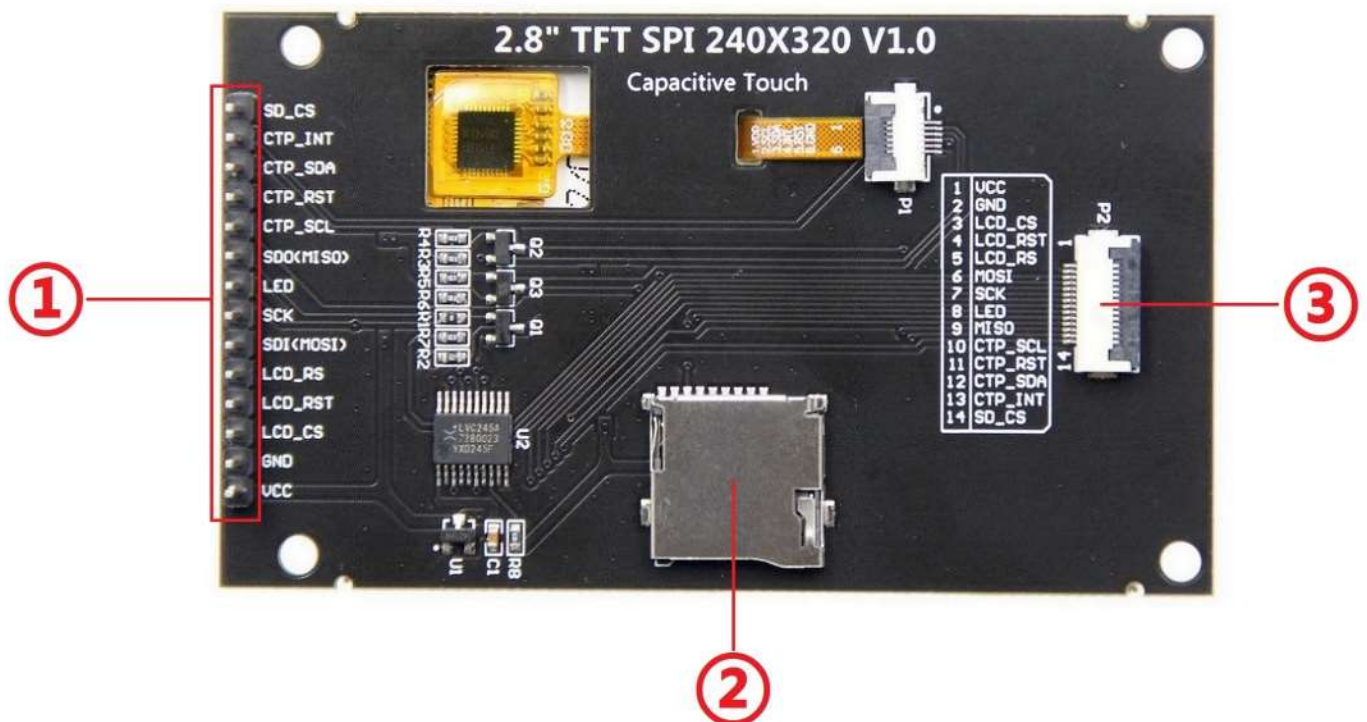
- Adopting a 4-wire SPI serial bus to save I/O pins
- Optional capacitive touch/no touch function for modules
- Module input supports 2.54 pin interface and FPC extension interface
- Equipped with micro TF card slot for easy storage expansion
- Provide rich example learning programs (ESP32/STM32/Arduino UNO&Mage2560/C51/CH32)
- Provide low-level driver technical support
- Multiple tests for module aging can meet military level standards, supporting long-term stable work

Product Paramete

Name	
LCD Parameters	
Screen Size	2.8 inch
Screen Type	IPS
Resolution	240xRGBx320 (pixels)
Active Area (AA area)	43.20(W)x57.60(H)(mm)
Number of Colors(Max)	262K
Driver IC	ILI9341V
Display Interface	4-Line SPI
Pixel Size	0.153(H)x0.153(V)(mm)
View Angle	ALL 0' CLOCK
Brightness(TYP)	280(cd/m ²)
Backlight Type	White LED*4
Operation Temperature	-10~50(°C)
Storage Temperature	-20~60(°C)
Touch Screen Parameters	
Touch Active Area	2.8 inch
Touch Screen Type	Capacitive Touch Screen
Touch Screen Resolution	240x320(pixels)
Driver IC	FT6336G
Touch Screen Visual Area	43.60±0.15(W)x58.05±0.15(H)(mm)
Communication Interface	IIC
Operation Temperature	-20~70(°C)
Storage Temperature	-30~80(°C)

Size Parameters	
TFT Outline Size	50.0±0.2(W)x69.20±0.2(H)x2.30±0.1(D)mm(Excluding cables and adhesive backing)
Touch Screen Outline Size	50.0±0.1(W)x69.20±0.1(H)x1.0±0.1(D)(mm)(Excluding cables and adhesive backing)
Module Outline Size	Have Touch Screen:50.0(W)x86.0(H)x12.78(D)(mm)(including Pin Header) NO Touch Scre
Electric	
Working Voltage	
Backlight Current	
Power	0.4 W
Other Parameters	
SKU	NO Touch Screen : MSP2833 Have Touch Screen : MSP2834
Interface	14P 2.54mm spacing Header and 0.5mm spacing FPC seat
Weight(including package)	MSP2833: 59g MSP2834: 67g

Interface Definition



■ Interface Function Description

Number	Interface	Function Description
①	14 Pin Header	2.54mm spacing row pins, module signal input pins
②	Micro SD Slot	Insert a Micro SD card to expand storage space, such as storing big data content such as fonts and images
③	14P FPC	0.5mm FPC ter same function

■ Pin Function Description

Number	Pin Label	
1	VCC	Power positive
2	GND	Power ground
3	LCD_CS	LCD selection control signal, Low level active
4	LCD_RST	LCD reset control signal, Low level reset
5	LCD_RS	LCD command / data selection control signal High level: data, low level: command
6	SDI(MOSI)	SPI bus write data signal(SD card and LCD screen used together)
7	SCK	SPI bus clock signal(SD card and LCD screen used together)
8	LED	LCD backlight control signal (If you need control, please connect the pins. If you don't need control, you can skip it)
9	SDO(MISO)	SPI bus read data signal (SD card and LCD screen used together)
10	CTP_SCL	Capacitive touch screen IIC bus clock signal (modules without touch screens do not need to be connected)
11	CTP_RST	Capacitor touch screen reset control signal, low-level reset (modules without touch screens do not need to be connected)
12	CTP_SDA	Capacitive touch screen IIC bus data signal (modules without touch screens do not need to be connected)
13	CTP_INT	Capacitor touch screen IIC bus touch interrupt signal, when generating touch, input low level to the main control (modules without touch screens do not need to be connected)
14	SD_CS	SD card selection control signal, low level active (without SD card function, can be disconnected)