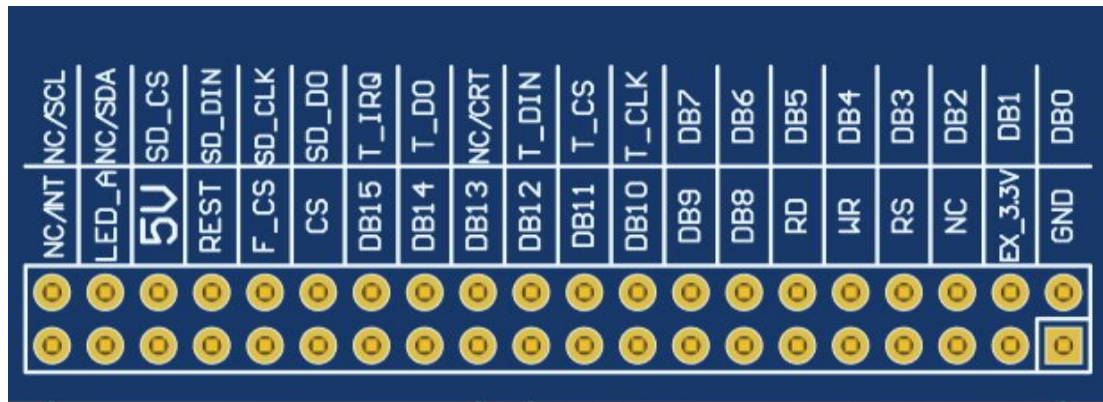


# 7.0inch LCD module instructions

## 1. Interface definition



Number	Pin Name	Pin Description
1	GND	power ground pin
2	EX_3.3V	Undefined, reserved as the positive pin of the power supply (connected to 3.3V)
3	NC	Undefined, reserved
4	RS	LCD register / data selection control pin (low level: register, high level: data)
5	WR	LCD write control pin
6	RD	LCD read control pin
7~14	DB8~DB15	LCD data bus high 8-bit pin
15	CS	LCD reset control pin( low level enable)
16	F_CS	SPI FLASH chip select control pin( low level enable)
17	REST	LCD reset control pin( low level reset)
18	5V	Power supply positive pin (connected to 5V)
19	LED_A	LCD backlight control pin(it needs to be used according to the selection)
20	NC/INT	There is no definition when connecting the resistance touch screen,Used as interrupt pin when connected to capacitive touch screen

21~28	<b>DB0~DB7</b>	LCD data bus low 8-bit pin
29	<b>T_CLK</b>	Resistance touch screen SPI bus clock pin
30	<b>T_CS</b>	Resistive touch screen chip selection pin (low level enable)
31	<b>T_DIN</b>	Resistance touch screen SPI bus write data pin
32	<b>NC/CRT</b>	There is no definition when connecting the resistance touch screen,Used as reset pin when connected to capacitive touch screen (low level reset)
33	<b>T_DO</b>	Resistance touch screen SPI bus read data pin
34	<b>T_IRQ</b>	Resistance touch screen interrupt detection pin (active at low level)
35	<b>SD_DO</b>	SD card SDIO bus read data pin
36	<b>SD_CLK</b>	SD card SDIO bus clock pin
37	<b>SD_DIN</b>	SD card SDIO bus write data pin
38	<b>SD_CS</b>	SD card pin selection (low level enable)
39	<b>NC/SDA</b>	There is no definition when connecting the resistance touch screen,As IIC bus data pin when connected to capacitive touch screen
40	<b>NC/SCL</b>	There is no definition when connecting the resistance touch screen,Used as IIC bus clock pin when connected to capacitive touch screen

### Note:

- A. The pins beginning with T are the relevant pins of the resistive touch screen;
- B. The pins beginning with SD are SD card related pins;
- C. Pins beginning with F are SPI flash related pins;
- D. NC/ starts with relevant pins of capacitive touch screen;
- E. The rest are LCD related pins;
- F. SPI flash is not welded. If you need to use it, please weld it yourself.

## 2. Program wiring instructions

### STC12LE5A60S2 Program wiring instructions:

LCD module		51 connection wiring
5V	--->	5V
GND	--->	GND
PB0~PB7	--->	P00~P07
PB8~PB15	--->	P20~P27
WR	--->	P36
RD	--->	P37
RS	--->	P35
REST	--->	P12
CS	--->	P10
LED_A	--->	If it is necessary to use 3.3V
T_IRQ	--->	P34
T_DIN	--->	P30
T_DO	--->	P31
T_CS	--->	P14
T_CLK	--->	P17

### STM32F103RCT6 Program wiring instructions:

LCD module		STM32 connection wiring
5V	--->	5V
GND	--->	GND
DB0~DB15	--->	PB0~PB15
WR	--->	PC7
RD	--->	PC6
RS	--->	PC8
REST	--->	PC4
CS	--->	PC9
LED_A	--->	PC10
T_IRQ	--->	PC1
T_DIN	--->	PC3
T_DO	--->	PC2
T_CS	--->	PC13
T_CLK	--->	PC0

### STM32F407VET6 Program wiring instructions:

LCD module		STM32 connection wiring
5V	--->	5V
GND	--->	GND
DB0	--->	PD14
DB1	--->	PD15
DB2	--->	PD0

DB3	--->	PD1
DB4	--->	PE7
DB5	--->	PE8
DB6	--->	PE9
DB7	--->	PE10
DB8	--->	PE11
DB9	--->	PE12
DB10	--->	PE13
DB11	--->	PE14
DB12	--->	PE15
DB13	--->	PD8
DB14	--->	PD9
DB15	--->	PD10
WR	--->	PD5
RD	--->	PD4
RS	--->	PD11
REST	--->	reset pin
CS	--->	PD7
LED_A	--->	PB15
T_IRQ	--->	PB1
T_DIN	--->	PB2
T_DO	--->	PC4
T_CS	--->	PC13
T_CLK	--->	PB0

### Note:

- A. The module power supply must be connected to 5V, otherwise the backlight will not light up;
- B. There are three ways of backlight control: normally on, ssd1963 PWM control brightness, and pin control. By default, pin control is used, and only led is required\_ A pin input high level, can enable the backlight drive circuit, light the backlight, input low level to extinguish the backlight. The backlight brightness can be adjusted by inputting PWM signal.
- C. When the 7-inch backlight is at its brightest, the total current of the module can reach about 420mA, so be sure to use a stable power supply and qualified power supply line.