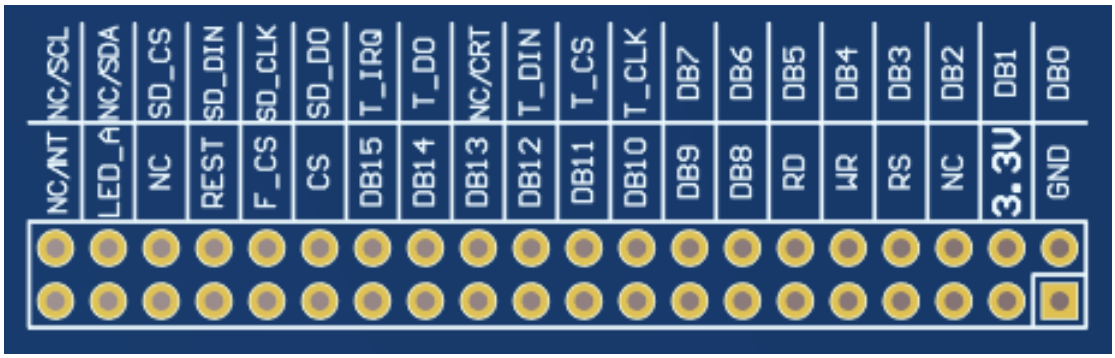
5.0inch LCD module instructions

1. Interface definition



Number	Pin Name	Pin Description
1	**GND**	power ground pin
2	**3.3V**	power positive pin(connected to 3.3V)
3	**NC**	Undefined, reserved
4	**RS**	LCD register / data selection control pin (high level: register, low 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	**NC**	Undefined, reserved
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	**DB0~DB7**	LCD data bus low 8-bit pin

29	**T_CLK**	Resistance touch screen SPI bus clock pin
30	**T_CS**	Resistive touch screen chip selection pin (low level enable)
31	**T_DIN**	Resistance touch screen SPI bus write data pin
32	**NC/CRT**	There is no definition when connecting the resistance touch screen,Used as reset pin when connected to capacitive touch screen (low level reset)
33	**T_DO**	Resistance touch screen SPI bus read data pin
34	**T_IRQ**	Resistance touch screen interrupt detection pin (active at low level)
35	**SD_DO**	SD card SDIO bus read data pin
36	**SD_CLK**	SD card SDIO bus clock pin
37	**SD_DIN**	SD card SDIO bus write data pin
38	**SD_CS**	SD card pin selection (low level enable)
39	**NC/SDA**	There is no definition when connecting the resistance touch screen,As IIC bus data pin when connected to capacitive touch screen
40	**NC/SCL**	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
3.3V	--->	3.3V
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
3.3V	--->	3.3V
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
3.3V	--->	3.3V
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. 3.3V power supply must be connected to 2.8v~3.3v, not 5V;

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 backlight of 5.0-inch IPS screen is brightest, the total current of the module can reach about 395ma. When the backlight of 5.0-inch TN screen is brightest, the total current of the module can reach about 406ma. So be sure to use stable power supply and qualified power supply line.