

# ITDB02-5.0

## Overview



ITDB02-5.0 module is 5.0" TFT LCD with 65K color 800 x 480 resolutions. The controller of this LCD module is SSD1963, it supports 16bit data interface with 4 wires control interface. Moreover, this module includes the touch screen and SD card socket. This LCD is supported by UTFT Arduino library.

## Features

- Compatible with UTFT library
- With SD Card Socket

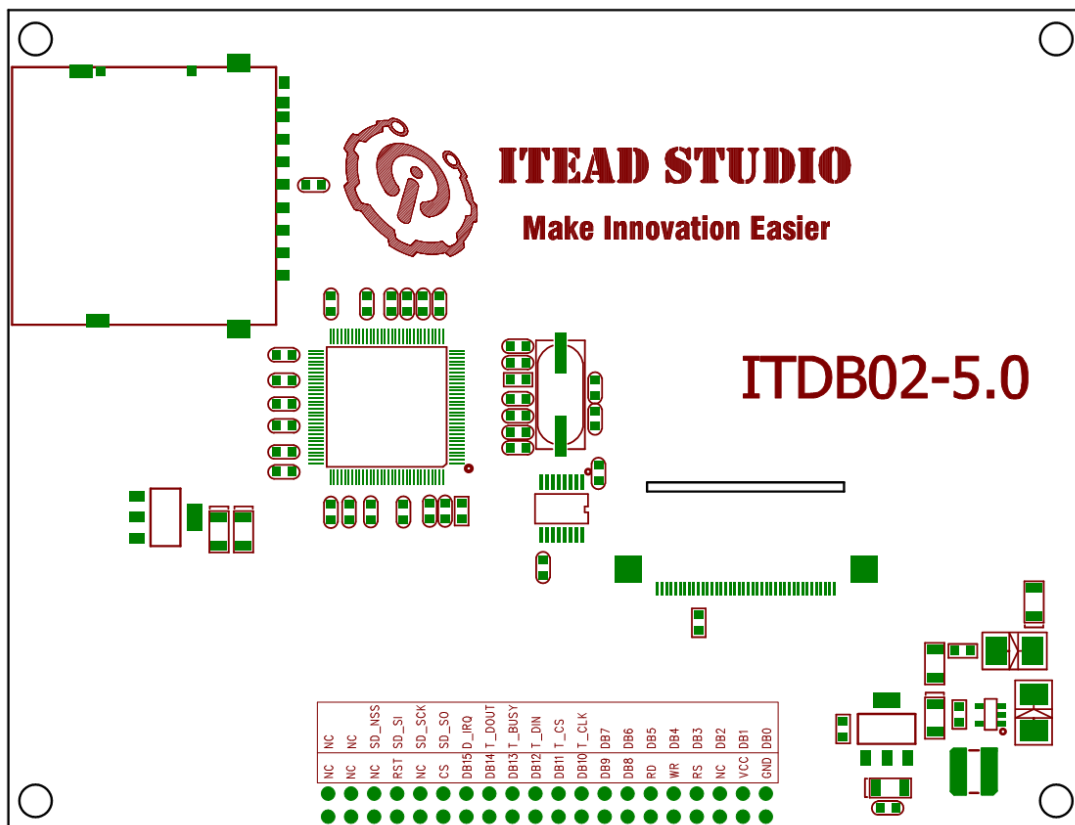
## Specifications

PCB size	118.5mm X 90.2mm X 1.6mm
Power supply	5V DC
RoHS	Yes

## Electrical Characteristics

Specification		Min	Type	Max	Unit
Power Voltage		4.5	5	5.5	VDC
Output Voltage	Target Voltage = 3.3V	3	3.3	3.6	V
	VH Target Voltage = 5V	4.5	5	5.5	
Output Voltage VL:		-0.3	0	0.5	V
Current Consumption		-	20	40	mA

## Hardware



Bottom View

### Pin Map

Pin	Type*	Description
GND	G	Ground
VCC	P	5V Power Supply pin
NC	-	No connection
RS	I	Data/Command selection
WR	I	Write signal enable, low active
RD	I	Read signal enable, low active

DB8	I	Data Bus
DB9	I	Data Bus
DB10	I	Data Bus
DB11	I	Data Bus
DB12	I	Data Bus
DB13	I	Data Bus
DB14	I	Data Bus
DB15	I	Data Bus
CS	I	Chip Selection, Low level active
NC	-	No connection
LED	P	Backlight
NC	-	No connection
DB0	I	Data Bus
DB1	I	Data Bus
DB2	I	Data Bus
DB3	I	Data Bus
DB4	I	Data Bus
DB5	I	Data Bus
DB6	I	Data Bus
DB7	I	Data Bus
T_CLK	I	Touch clock
T_CS	I	Touch chip selection
T_DIN	I	Touch data input
T_BUSY	O	Touch status
T_DOUT	O	Touch data output
T_IRQ	O	Touch interrupt
SD_SO	O	SD MISO
SD_SCK	I	SD SCK
SD_SI	I	SD MOSI
SD_NSS	I	SD NSS
NC	-	No connection
NC	-	No connection

\* : P: Power supply; G:Ground; I:Input; O:Output;

The ITDB02\_5.0 uses the SSD1963 controller , it support 16bit data interface.  
 The touch IC is TSC2046.

## Revision History

Rev.	Description	Release date
v1.0	Initial version	2012-5-25