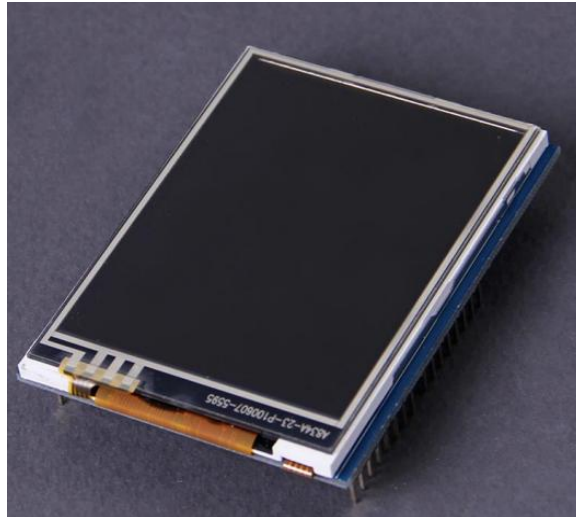


# *ARDUINO SHIELD LCD TOUCH 2.8"*

## *User Manual*



### Overview:

The Arduino 2.8" TFT Touch Shield is designed for all the Arduino compatible boards. It works in 3.3V voltage level. It can be directly plugged on the Arduino and other compatible boards. It will offer display, touch and storage functions for the Arduino board.

### Features:

- Arduino UNO Rev3 / Mega Shield compatible footprint
- Arduino library UTFT support
- TFT Resolution : 240 x 320 pixels
- Size : 2.8"
- Colors : 65K
- Backlight : LED
- Driver IC: ILI9325DS

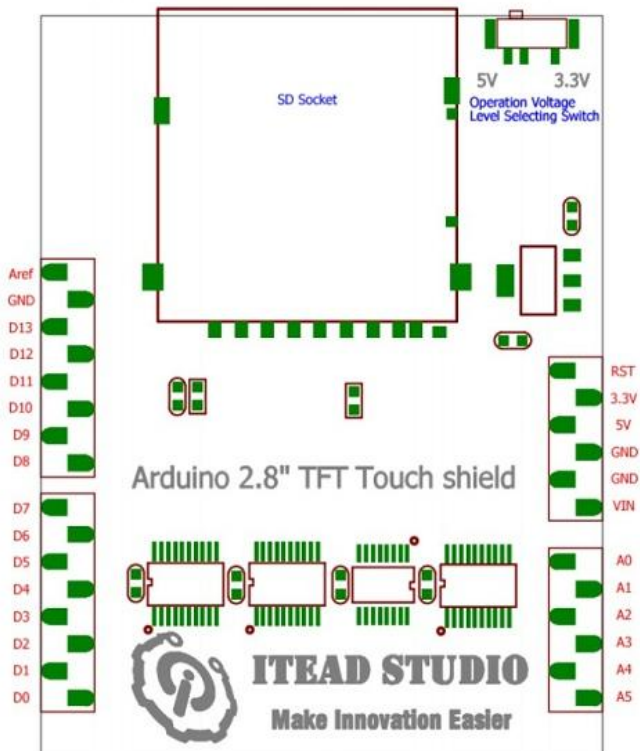
### Specifications:

PCB size	68.6mm X 53.3mm X 1.6mm
Power supply	compatible with Arduino
RoSH	Yes

### Electrical Characteristics:

Parameter	Min.	Typical	Max.	Unit
Power voltage	4.5	5	5.5	VDC
Input voltage VH	3		5.5	V
Input voltage VL	-0.3	0	0.5	V

## Hardware:



## Pin map of Arduino 2.8" TFT Touch Shield:

The Arduino 2.8 TFT Touch shield uses the ILI9325DS controller, it support 8bit data interface. The touch IC is TSC2046.

Arduino PIN	Description
D0	DB8
D1	DB9
D2	DB10
D3	DB11
D4	DB12
D5	DB13
D6	DB14
D7	DB15
D8	Touch_Dout
D9	Touch_IRQ
D10	SD_CS
D11	SD_MOSI
D12	SD_MISO
D13	SD_SCK
A0	Touch_Din
A1	Touch_CLK
A2	-
A3	TFT_CS
A4	TFT_WR
A5	TFT_RS

### Operation voltage level setting switch:

When using the Arduino 2.8 TFT Touch shield with 5V operation level development board – like the Arduino UNO, Arduino MEGA and so on, set the operation voltage level switch to 5V side.

When using the Arduino 2.8 TFT Touch shield with 3.3V operation level development board – like the Iteduino BT, leaf maple, chipKit UNO and so on, set the operation voltage level switch to 3.3V side.

### Software:

This shield is compatible with UTFT library for Arduino, chipKit and their compatible boards. Library is found in Software.

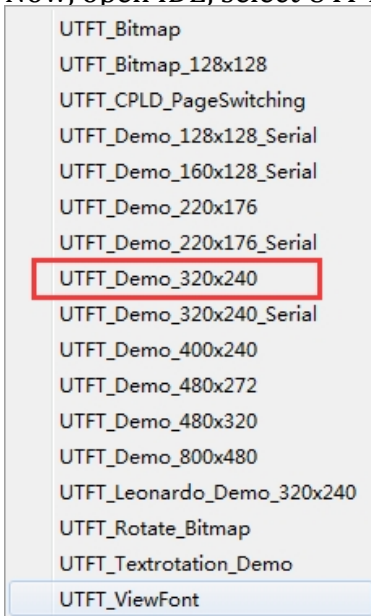
### Instruction:

First, download the UTFT library from software, extract the library in the libraries folder. Assure that this is the only UTFT library in your Arduino IDE.

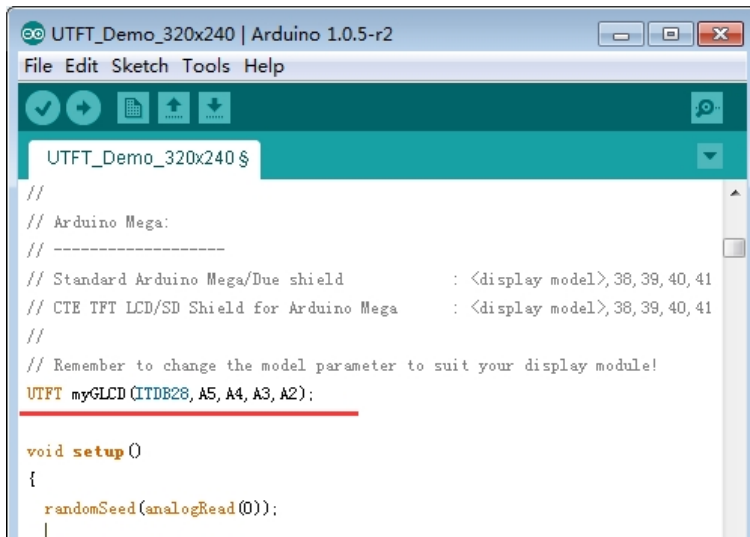
Second, open the file Arduino\libraries\UTFT\hardware\avr\HW\_AVR\_defines.h, comment out the definition about shield, and save the file.

```
#define USE_UNO_SHIELD_ON_MEGA 1
```

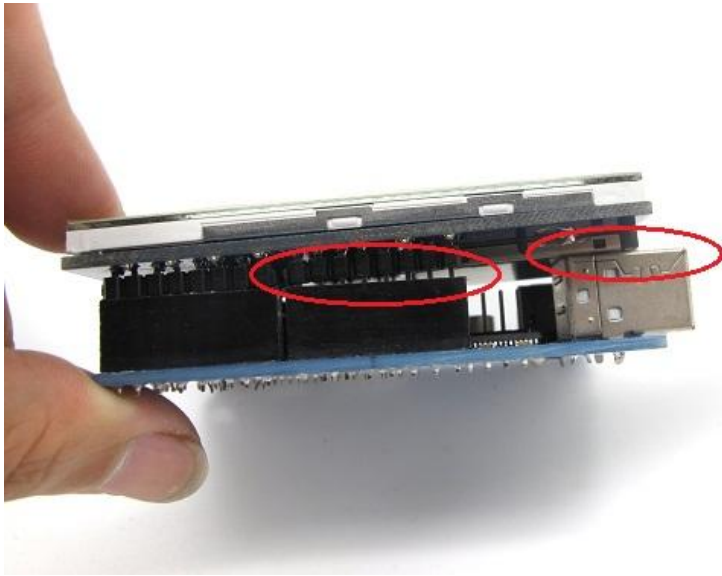
Now, open IDE, select UTFT AVR demo



Before upload to your Mega or UNO, you need to modify some parameters. The original parameter of demo shall be replaced to (ITDB28, A5, A4, A3, and A2)



Now, you can upload the demo to Mega/UNO. Suggest that plug the LCD shield in your Mega/UNO while demo uploading. If not, you'd better press the reset button after demo uploading.



It's pretty normal, and won't affect anything, if the shield doesn't click 100% to click onto the Arduino Uno R3, and that's because of the USB port.

### *How to open Software:*

- Enter to <http://www.ekt2.com/products/productdetails?ProductId=94F2B94C-9795-4D25-B89C-C49F7886FA5E>
- Press the icon to download software

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