

Arduino 2.4"E TFT Touch Shield

Overview



The Arduino 2.4"E 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

- Compatible with 3.3/5V operation voltage level
- Compatible with UTFT library
- With SD Card Socket

Specifications

PCB size	60.2mm X 50.8mm X 1.6mm
Indicators	-
Power supply	5V
Communication Protocol	-
RoHS	Yes

Electrical Characteristics

Specification	Min	Type	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

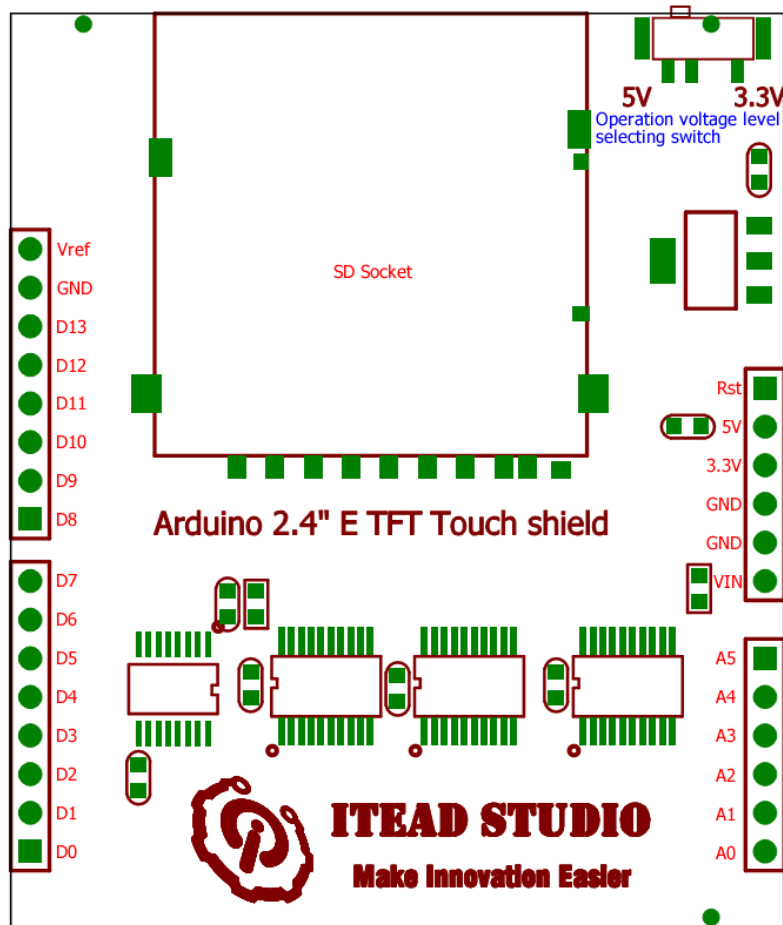


Figure 1 Bottom View

Pin map of Arduino 2.4" TFT Touch Shield:

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

The Arduino 2.4" E TFT Touch shield uses the S6D1121 controller, it support 8bit data interface. The touch IC is TSC2046.

Operation voltage level setting switch

When using the Arduino 2.4" E 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 2.4" E TFT Touch shield with 3.3V operation level development board – like the Iteaduno 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. You can down load the library here:

<http://henningkarlsen.com/electronics/library.php?id=52>

Revision History

Rev.	Description	Release date
v1.0	Initial version	2012-04-25