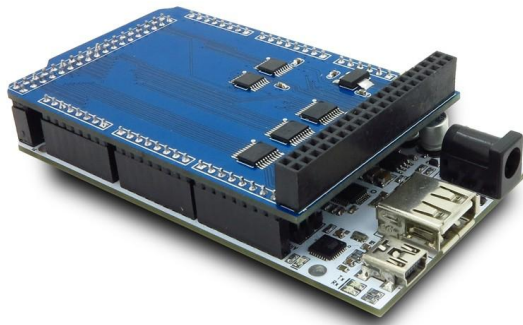# ITDB02 Arduino MEGA shield 2.0

The ITDB02 LCD module is work in 3.3V voltage level and it's not compatible with Arduino pins, so we make a shield for Arduino MEGA. Now user can directly plug the ITDB02 in the shield and stand on the Arduino MEGA board.
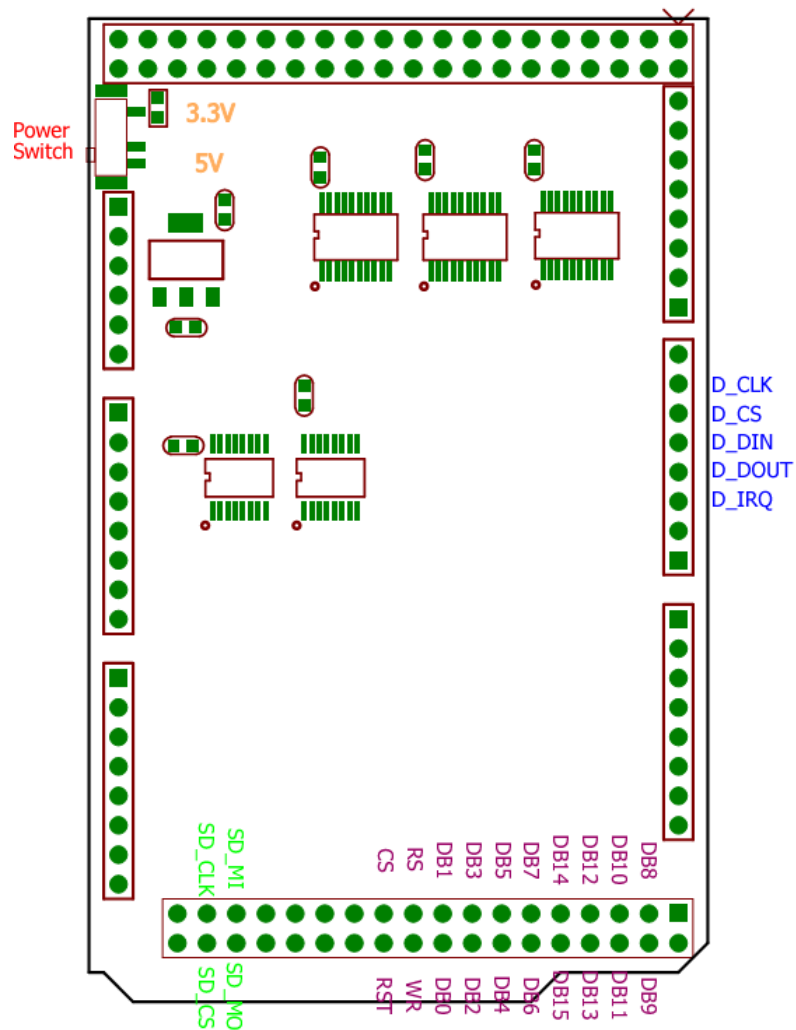

Overview

The ITDB02 MEGA shield V2.0 is on supports both 16 bit mode with ITDB02, you can use 2.4" or 3.2" with touch and SD card at the same time.

Basic features

- Arduino MEGA compatible.
- Touch or SD card expand
- Arduino Library support

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Hardware

Power Switch

3.3V
5V

D_CLK
D_CS
D_DIN
D_DOUT
D_IRQ

SD_MI SD_CLK | SD_MO SD_CS | RS CS | DB1 DB3 DB5 DB7 DB14 DB12 DB10 DB8 | RST WR DE0 DE2 DB4 DB6 DB15 DB13 DB11 DB9

Pin of Arduino	With ITDB02	
3V3	LED_A	RD
5V	VCC	
GND	GND	
D22(PA0)	DB8	-
D23(PA1)	DB9	-
D24(PA2)	DB10	-
D25(PA3)	DB11	-
D26(PA4)	DB12	-
D27(PA5)	DB13	-
D28(PA6)	DB14	-
D29(PA7)	DB15	-
D37(PC0)	DB0	-

D36(PC1)	DB1	-
D35(PC2)	DB2	-
D34(PC3)	DB3	-
D33(PC4)	DB4	-
D32(PC5)	DB5	-
D31(PC6)	DB6	-
D30(PC7)	DB7	-
D41(PG0)	RESET	-
D40(PG1)	CS	-
D39(PG2)	WR	-
D38(PD7)	RS	-
D50(PB3)	SD_OUT	-
D51(PB2)	SD_IN	-
D52(PB1)	SD_CLK	-
D53(PB0)	SD_CS	-
D6	D_CLK	-
D5	D_CS	-
D4	D_IN	-
D3	D_OUT	-
D2	D_IRQ	

Links and References

- ITead Studio Site: iteadstudio.com
- UTFT Library: http://henningkarlsen.com/electronics/library.php?id=51

Revision History

Rev.	Description	Release date
v1.0	Initial version	2012-05-21
V1.1	Fix a description error	2012-06-19