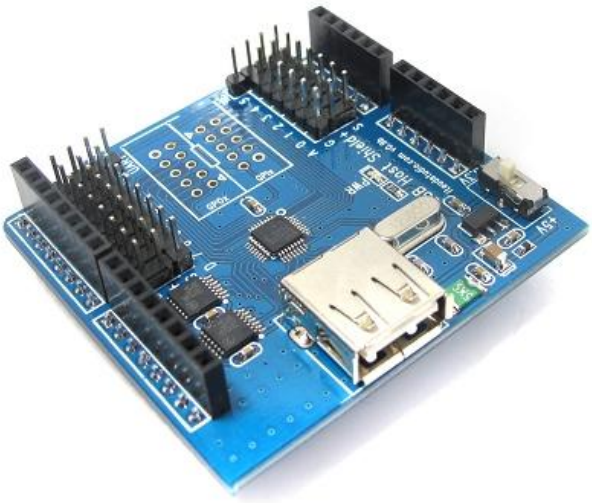
USB Host shield

Overview



The USB Host Shield contains all of the digital logic and analog circuit necessary to implement a full-speed USB peripheral/host controller with Arduino. User can use the Arduino to connect and control any USB slave device easily.

Features

- USB 2.0 Full Speed compatible
- 3.3/5V operation level compatible
- All GPIOx pins break-out
- USB Host 5V/500mA supply for USB protocol

Specifications

PCB size	56mm X 54mm X 1.6mm
Indicators	PWR
RoSH	Yes

Electrical Characteristics

Specification	Min	Type	Max	Unit
Power Voltage (Vlogic)	3.0	–	5.5	VDC
Input Voltage VH:	0.7Vlogic	–	–	V
Input Voltage VL:	–	–	0.3Vlogic	V
Current Consumption	–	–	70	mA

Hardware

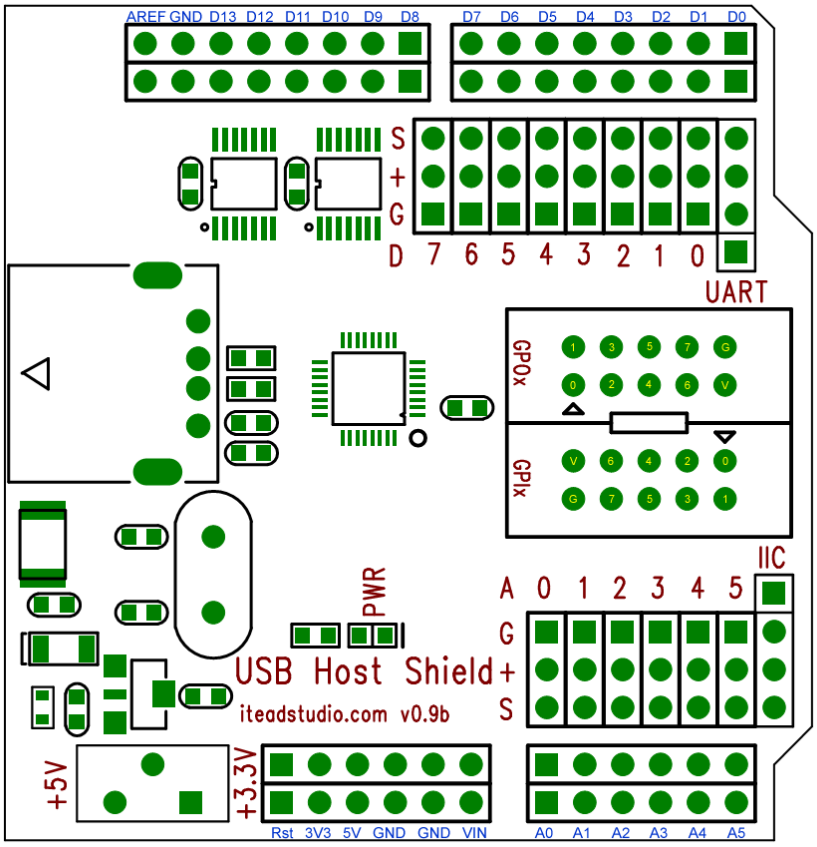


Figure 1 Top Map

Arduino Socket defination:

Pin	Description
D0	UART_Rx
D1	UART_Tx
D2	–
D3	–
D4	–

D5	–
D6	–
D7	–
D8	–
D9	–
D10	SPI-CSn
D11	SPI-MOSI
D12	SPI-MISO
D13	SPI-SCK
A0	AD0
A1	AD1
A2	AD2
A3	AD3
A4	IIC_SCL
A5	IIC_SDA

GPIOx Break-out detail

As the figure 2 shown, all the GPIOx are all breakout.

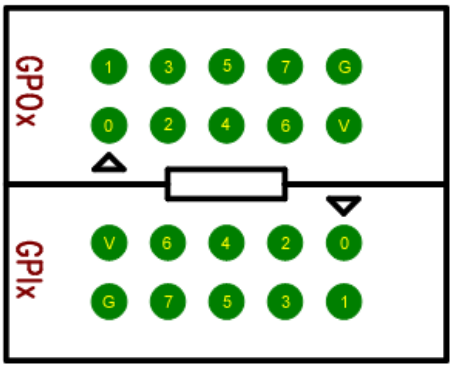


Figure 2 GPIOx pins map

3.3/5V Operation Switch

When the based board is run in 3.3V, the switch should be set to 3.3V. And when the based board is run in 5V, the switch should be set to 5V.

Revision History

Rev.	Description	Release date
v1.0	Initial version	2011-12-08