

# ITEAD Joystick Shield

## - Joystick and buttons input for Arduino

### Overview



Joystick shield can sit on top of your Arduino and turn it into a simple controller. It has a joystick with button and another 6 buttons. Double operation level compatible feature is very easy to use for Arduino compatible board, Iteadmaple or IFLAT-32.

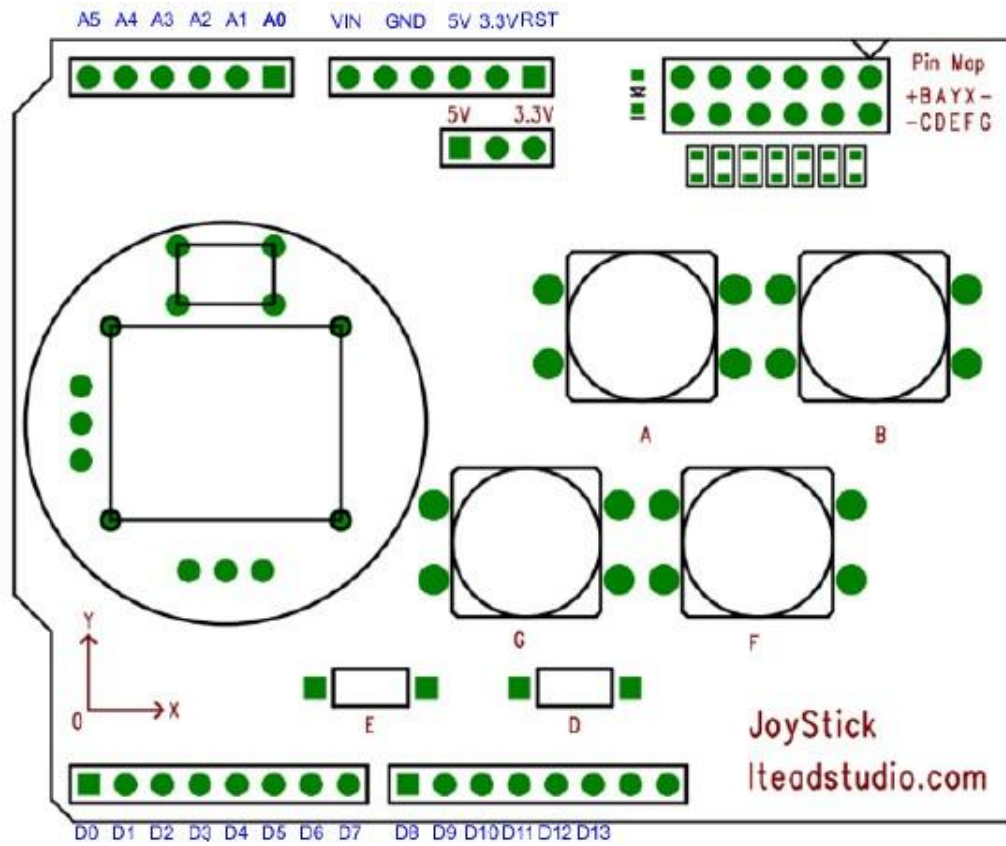
### Specifications

|              |                         |
|--------------|-------------------------|
| PCB size     | 53.3mm X 68.6mm X 1.6mm |
| Power supply | 5V/3.3V DC              |
| RoSH         | Yes                     |

### Electrical Characteristics

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

## Hardware



## Pins description

| Pin | Output type | Description       |
|-----|-------------|-------------------|
| D0  | NA          | No Connection     |
| D1  | NA          | No Connection     |
| D2  | NA          | No Connection     |
| D3  | Digital     | Button E Output   |
| D4  | Digital     | Button D Output   |
| D5  | Digital     | Button C Output   |
| D6  | Digital     | Button B Output   |
| D7  | Digital     | Button A Output   |
| D8  | Digital     | Button F Output   |
| D9  | Digital     | Button G Output   |
| D10 | NA          | No Connection     |
| D11 | NA          | No Connection     |
| D12 | NA          | No Connection     |
| D13 | NA          | No Connection     |
| A0  | Analog      | Joystick Y Output |
| A1  | Analog      | Joystick X Output |
| A2  | NA          | No Connection     |

|    |    |               |
|----|----|---------------|
| A3 | NA | No Connection |
| A4 | NA | No Connection |
| A5 | NA | No Connection |

NA: No application

Digital: the output voltage of HIGH status depends on the voltage selection jumper.

Analog: the max output voltage depends on the voltage selection jumper.

## Jumper description

| Switch | Description                                     |
|--------|---|
| +3.3V  | Work with 3.3V system, like IFLAT32, Iteadmaple |
| +5V    | Work with 5V system, like Arduino, Iteaduino,   |

## Pin map description

Pin map is an interface for other application not Arduino compatible board. It is a 6\*2 male breakout interface and the description is as the next list.

|     |          |          |          |          |          |
|-----|----------|----------|----------|----------|----------|
| VCC | B OUTPUT | A OUTPUT | Y OUTPUT | X OUTPUT | GND      |
| GND | C OUTPUT | D OUTPUT | E OUTPUT | F OUTPUT | G OUTPUT |

## Revision History

| Rev. | Description     | Release Date |
|------|-----------------|--------------|
| V1.0 | Initial version | 2011-9-25    |