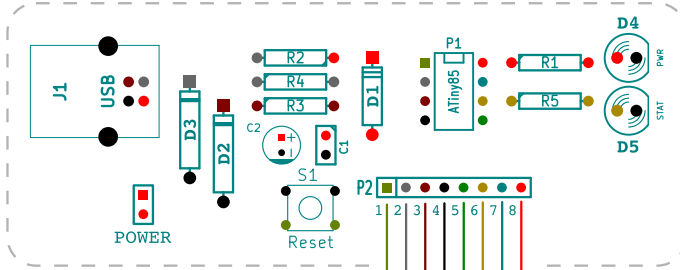


Paperduino Tiny



<http://digistump.com/wiki/digispark>



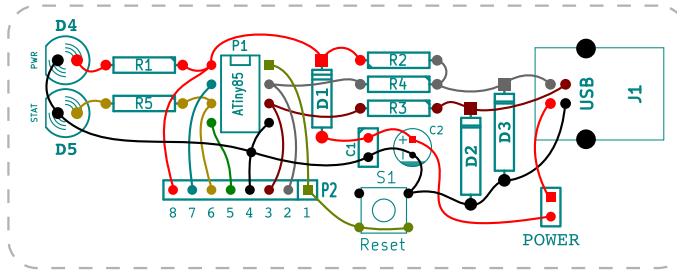
open hardware

<http://www.paperduino.eu>

8	+5V	CPU	ISP	ANALOGOUT	I2C	ANALOGIN	FUNC
7	DIG2	PB2	SCK	-	SCL	-	LED
6	DIG1	PB1	MISO	PWM	-	-	LED
5	DIG0	PB0	MOSI	PWM	SDA	-	LED
4	GND						
3	DIG4	PB4	-	PWM	-	ADC2	
2	DIG3	PB3	-	PWM	-	ADC3	
1	DIG5	PB5	RESET	-	-	ADC0	RESET

The following Arduino commands should be supported:

- pinMode()
- digitalWrite()
- digitalRead()
- analogRead()
- analogWrite()
- shiftOut()
- pulseIn()
- millis()
- micros()
- delay()
- delayMicroseconds()
- SoftwareSerial



Partlist

- | | |
|---------------------------|--------------------|
| D1 1N4148 | C1 100nF |
| D2 ZD 3V6 | C2 10uF/16V |
| D3 ZD 3V6 | R1 1k5 |
| D4 LED | R2 1k5 |
| D5 LED | R3 22R |
| P1 ATTINY85+socket | R4 22R |
| P2 8 PIN HEADER | R5 1k5 |
| J1 USB B socket | |
| S1 TACT SW | |

Burning bootloader to ATTINY85

It is very important to use the correct fuses bit when burning bootloader to ATTINY85, below list the fuses bit for burning bootloader:

- Extended: 0xFE
- High: 0xDD
- Low: 0xE1

Please note that these fuses setting will not enable reset pin (ATTINY85 pin 1) as I/O, so you only have 5 I/O. If you are experienced user you can set RSTDISBL to enable 6 I/O pins.