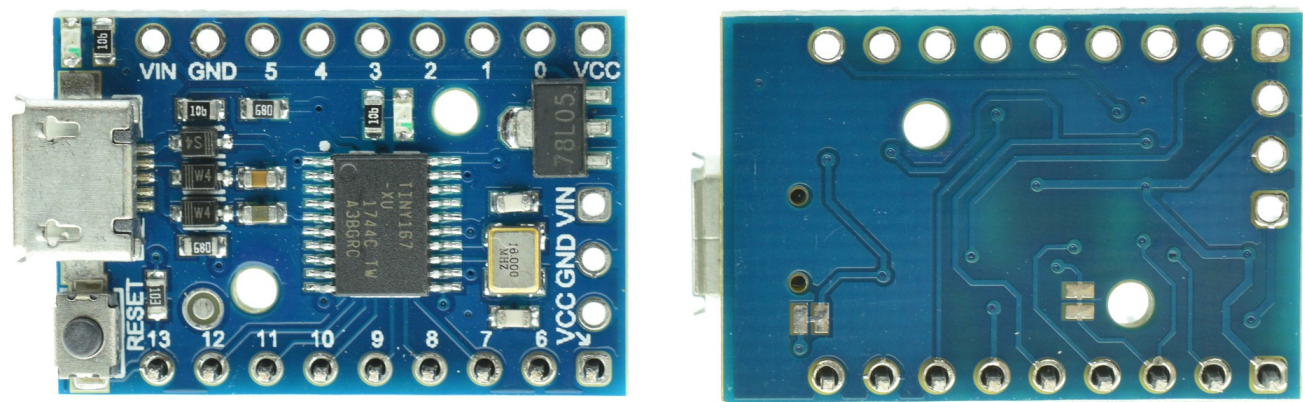


Digispark Pro



clone of Digispark Pro

color	USB	Board	Proccessor	Prog	Mem	MIPS	SPI	I2C	UART	Idle PWR
black	Micro	Digispark Pro(Default - 16Mhz)	ATTINY167	16KB	0.5KB	16	2	1	1	0.109W

Aliexpress: ~3\$

<http://digistump.com/products/110>

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

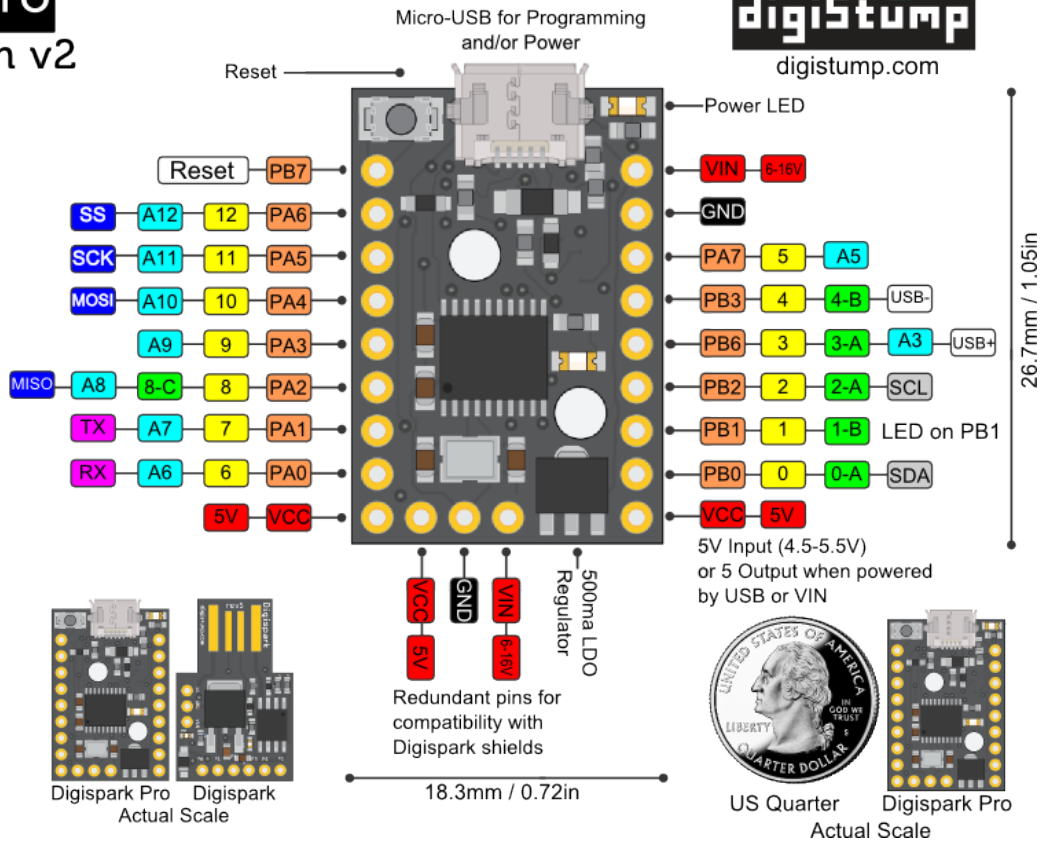
The Official BETA

Digispark Pro

Pinout Diagram v2



GROUND
POWER
PHYSICAL PIN
DIGITAL PIN
digitalRead() digitalWrite() pinMode()
PWM PIN
analogWrite() pwmConnect() pwmDisconnect() pwmWrite() pwmReset() analogWrite allows one pin at a time per channel to be used - use pwm functions for more flexibility (see wiki)
ANALOG PIN
analogRead() analogReference()
SPI
SPI Library
UART/LIN
Serial1 Library
I2C
Wire Library
USB PIN
Programming Serial Library DigKeyboard Library DigMouse Library DigJoystick Library



src: <http://digispark.s3.amazonaws.com/DigisparkProDiagram2.png>

Blink Example

Power consumption: 0.108-0.120W

```
// the setup routine runs once when you press reset:
void setup() {
  // initialize the digital pin as an output.
  pinMode(1, OUTPUT); //on board LED
}

// the loop routine runs over and over again forever:
void loop() {
  digitalWrite(1, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000);           // wait for a second
  digitalWrite(1, LOW);  // turn the LED off by making the voltage LOW
  delay(1000);           // wait for a second
}
```

Low Power Blink Example

Power Consumption: 0.038-0.051W

```

#include <avr/wdt.h>
#include <avr/sleep.h>
#include <avr/interrupt.h>

#define adc_disable() (ADCSRA &= ~(1<<ADEN)) // disable ADC (before power-off)
#define adc_enable() (ADCSRA |= (1<<ADEN)) // re-enable ADC

void setup()
{
    // Power Saving setup
    for (byte i = 0; i < 6; i++) {
        pinMode(i, INPUT);    // Set all ports as INPUT to save energy
        digitalWrite(i, LOW); //
    }
    adc_disable();            // Disable Analog-to-Digital Converter

    wdt_reset();              // Watchdog reset
    wdt_enable(WDTO_1S);      // Watchdog enable Options: 15MS, 30MS, 60MS, 120MS, 250MS, 500MS, 1S, 2S, 4S, 8S
    WDTCR |= _BV(WDIE);       // Interrupts watchdog enable
    sei();                    // enable interrupts
    set_sleep_mode(SLEEP_MODE_PWR_DOWN); // Sleep Mode: max
}

void loop()
{
    pinMode(1, OUTPUT);
    digitalWrite(1, HIGH);

    sleep_enable();
    sleep_cpu();

    //Set the LED pins to LOW. This turns it off
    pinMode(1, OUTPUT);
    digitalWrite(1, LOW);

    sleep_enable();
    sleep_cpu();
}

ISR (WDT_vect) {
    WDTCR |= _BV(WDIE);
}

```