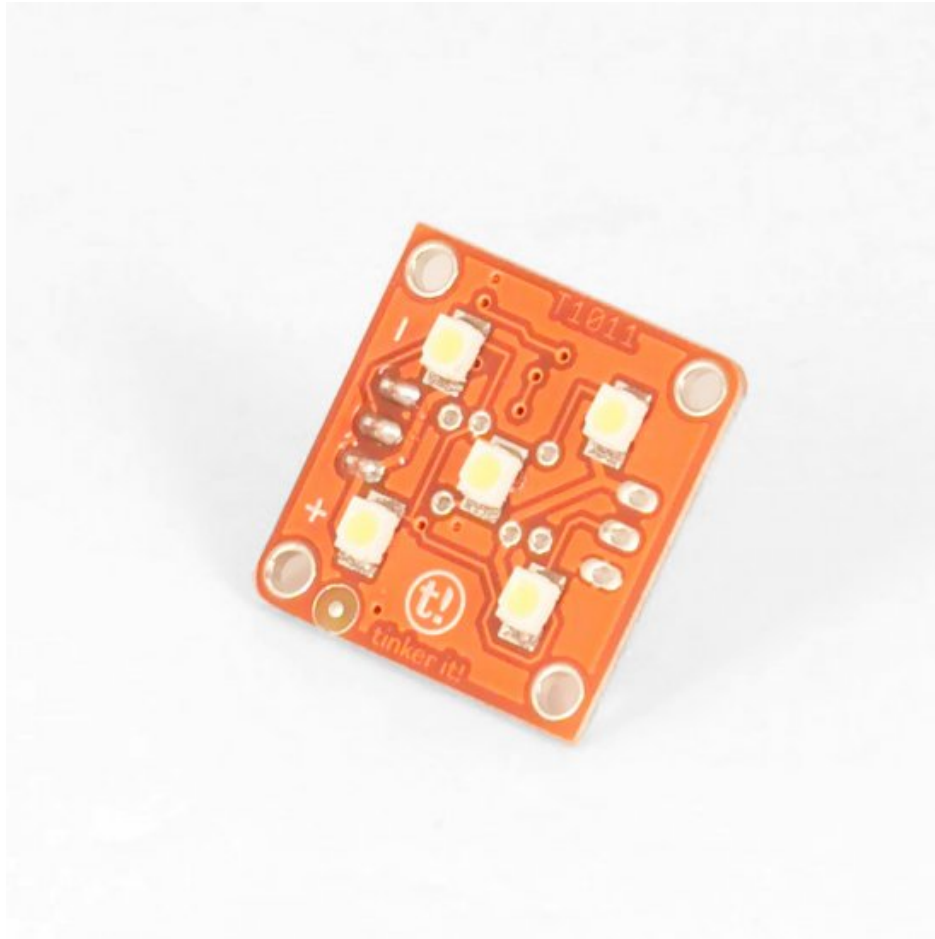# TinkerKit Power LED

Overview

The **Power LED** is an actuator. Five ultra-bright LEDs can be powered from an Arduino pin.

Input: Arduino provides a maximum of 40 mA per pin, enough to light up the five LEDs using the DigitalWrite() and AnalogWrite() functions.

Module description: This module features Five **AWT801-S LEDs from Seoul Semi Conductor**, the standard TinkerKit 3pin connector and a green LED that signals that the module is correctly powered and a yellow LED that is lit only when the LED is lit. A resistor limits the voltage from the Arduino, protecting the lights.

This module is an **ACTUATOR**. The connector is an **INPUT** which must be connected to an **OUTPUT** connector on the **TinkerKit Shield**.

Code Example

```
/*
based on Blink, Arduino's "Hello World!"
Turns on an LED on for one second, then off for one second, repeatedly.
The Tinkerkit Led Modules (T010110-7) is hooked up on O0


This example code is in the public domain.
*/

#define O0 11
#define O1 10
#define O2 9
#define O3 6
#define O4 5
#define O5 3
#define I0 A0
#define I1 A1
#define I2 A2
#define I3 A3
#define I4 A4
#define I5 A5


void setup() {
// initialize the digital pin as an output.
// Pin 13 has an LED connected on most Arduino boards:
pinMode(O0, OUTPUT);
}

void loop() {
digitalWrite(O0, HIGH); // set the LED on
delay(1000); // wait for a second
digitalWrite(O0, LOW); // set the LED off
delay(1000); // wait for a second
}
```