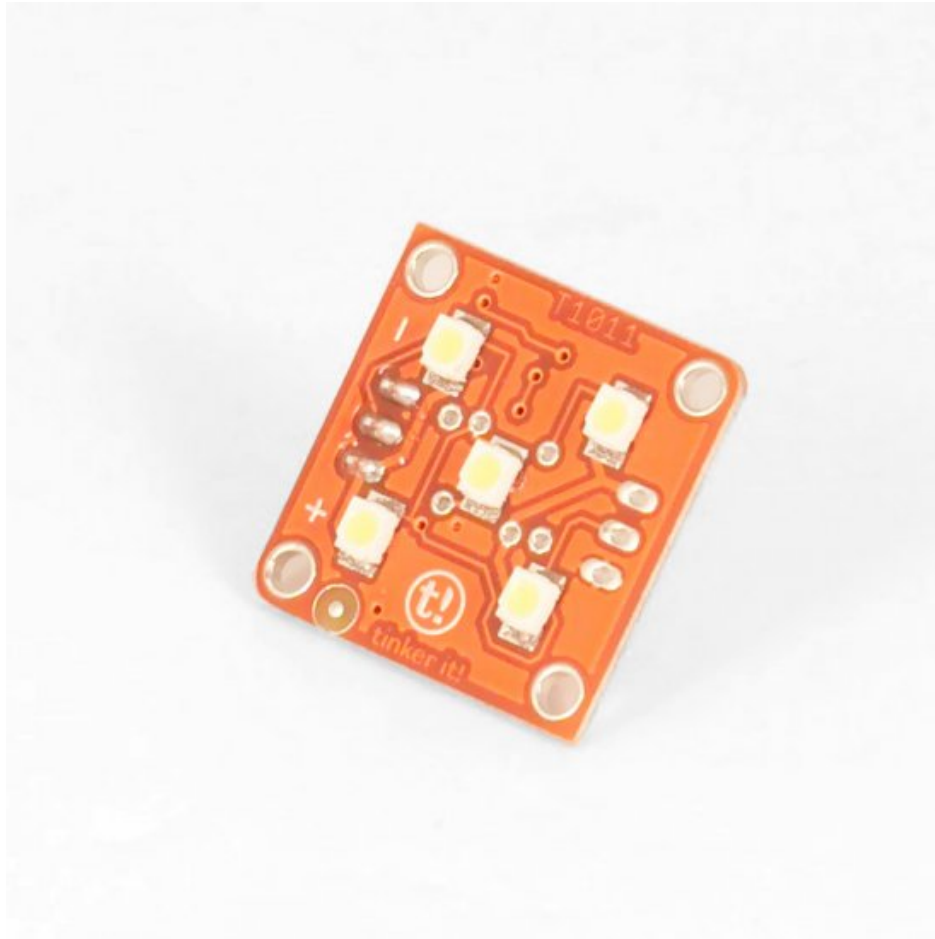




TinkerKit!

## 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  
}
```

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