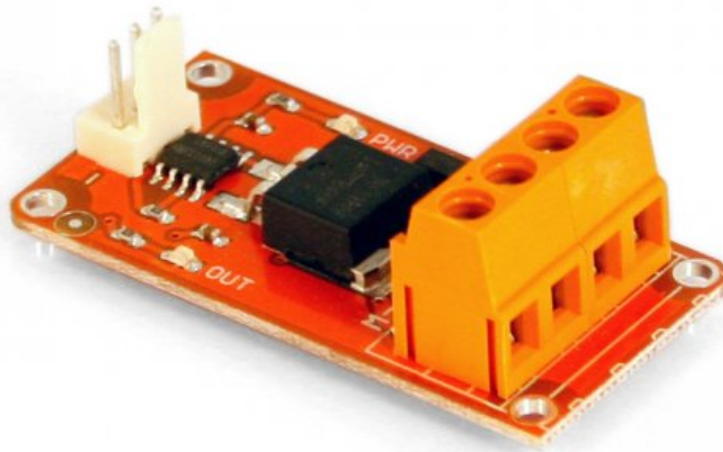




TinkerKit Mosfet Module



Overview

This module switches a high current load using a high power transistor. Unlike a mechanical relay, this is capable of high speed switching for use with PWM.

Input: This module lets you control devices operating at a maximum of 24VDC with an Arduino pin. To wire the module, connect the power supply for your device (max 24 V) to the V+ and GND terminals. Connect the device to M+ and M-. Be aware of your circuit's polarity, you could damage your components if it is not wired correctly.

Module Description: This module features an IRF520 power MOSFET transistor, a kick-back diode, a standard TinkerKit 3pin connector, a signal amplifier, a green LED that signals that the module is correctly powered and one yellow LED whose brightness depends on the input signal received by the module.

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

Code Example

```
/*  
based on Blink, Arduino's "Hello World!"  
Turns on a transistor on for one second, then off for one second,  
repeatedly.  
The MOSFET is on O1  
  
modified 15 jan 2011  
by Scott Fitzgerald  
  
This example code is in the public domain.  
*/
```

```
#define O0 11  
#define O1 10  
#define O2 9  
#define O3 6  
#define O4 5  

```

```
void setup() {  
  // initialize the digital pin as an output.  
  pinMode(O1, OUTPUT);  
}
```

```
void loop() {  
  digitalWrite(O1, HIGH); // turn the MOSFET on  
  delay(1000); // wait for a second  
  digitalWrite(O1, LOW); // turn the transistor off  
  delay(1000); // wait for a second  
}
```