SmartTiny Relay Controller
Version 1.2

Your Perfect Solution for Streamlined Control!

12V OUTPUT

5V OUTPUT

ATtiny 85 Power Control Switch

LED - This LED is independent of the ATtiny power switch. It solely indicates the presence of power to the PCB.

Broad Compatibility and Potential:
The Smart Tiny Relay Control Board Version 1.2 is more than just a device it's a gateway to possibilities. Compatible with attiny13a-pu, attiny25-pu, attiny45-pu, and attiny85-pu, this board serves as your creative canvas for a multitude of microcontroller.

12 Volt Power Input

GROUND

GROUND (OUT)

1. Reset (RESET) / Analog Input (ADC0) / DebugWire (dW) (Pb5):
Pin 1 serves as a reset button for restarting the microcontroller. It also functions as an analog input for reading analog signals and supports DebugWire for debugging.

2. Analog Input (ADC3) / Clock Input (CLKI) (PB3):
Pin 2 can be used for reading analog signals from sensors and accepting clock input for timing purposes.

3. Analog Input (ADC2) / Clock Output (CLKO) (PB4):
Pin 3 is suitable for reading analog signals from sensors and outputting clock signals.

4. Ground (GND): Only Connected to PCB
The Ground pin is the reference point for the electrical circuit and completes the circuit path.

5. Digital I/O, PWM / Analog Input (ADC0) / Serial Data (SDA) (PB0):
Pin 5 serves as a digital input/output with PWM capabilities. It can also read analog signals and handle serial data communication.

6. Digital I/O, PWM (OC0B) / Serial Clock (SCK) (PB1):
Pin 6 is a digital input/output with PWM capabilities. It's also the serial clock pin for synchronous communication.

7. Digital I/O, PWM (OC1B) / Serial Clock (SCL) (PB2):
Pin 7 functions as a digital input/output with PWM capabilities. It also serves as the serial clock pin for synchronous communication.

8. VCC: Only Connected to PCB
The VCC pin is the power supply input for the microcontroller. It receives the operating voltage.ur use of the ATtiny85 in your projects.

Understanding the functions of each pin empowers you to optimize your ATtiny85-based projects with precision and creativity.

Seamless Integration, Effortless Control:
The Smart Tiny Relay Control Board Version 1.2 comes equipped with a convenient 6-pin plug that effortlessly connects to your attiny, enabling seamless communication and coordination with your project. Wiring up to your project is a breeze, saving you time and effort while ensuring a hassle-free setup.

Key Features:

- **Compact Dimensions:**
The board measures 26 mm by 50 mm, offering a space-efficient design.
- **Efficient 8-Pin IC:**
The powerful 8-pin IC orchestrates precise control and execution of operations.
- **Versatile L7805:**
With a 12-volt input and dual 12-volt and 5-volt output capability, the L7805 adds adaptability to your projects.
- **Intelligent Power Switch:**
The onboard switch enables easy control of the ATtiny85 processor without affecting the LED.

- **Illuminating LED:**
An LED indicator signals the presence of power to the PCB, remaining lit regardless of the ATtiny85's state.
- **Piggyback Relay Compatibility:**
Easily connect additional 12V+ components by piggybacking relays of similar size.
- **Broad Microcontroller Compatibility:**
Supports attiny13a-pu, attiny25-pu, attiny45-pu, attiny85-pu, with potential for more chips (refer to Pinout).
- **Crafted in Montana, Assembled in the USA:**
Proudly designed and expertly assembled for quality assurance.
- **Seamless Integration:**
Features a convenient 6-pin plug for easy attiny connection and straightforward project wiring.