Numato Lab®

1 Channel USB Powered Relay Module

SKU: USBPOWRL002

Features

- 1 on board DPDT Relay.
- 2A Maximum Switching Current.
- 4 TTL (5V)Compatible GPIOs.
- 4 Analog Input Channels (Multiplexed with GPIOs) with 10-Bit Resolution.
- USB interface with CDC support. As easy as using a serial port, no USB knowledge required.

Applications

- Home Automation
- Industrial Automation
- Lighting Control
- Garden Equipment Control
- Test Fixtures
- DIY and Hobby

DESCRIPTION   BLOCK DIAGRAM

FAQ   RESOURCES

SAMPLE CODE   SPECIFICATIONS

1 Channel USB Powered Relay Module is great for controlling your devices through USB without any USB protocol knowledge. This module plugs into your design seamlessly. Individual relays can be controlled by simple commands. The relays are powered from the USB bus so it is important to connect this board directly to a PC or to a powered hub. Numato's 1 Channel USB Powered Relay Module provides exceptional value for money.

It has one onboard 5V DC relays that can switch up to 2A load. It come with built-in firmware that supports simple commands to control relays and read relay status. The board, when attached to a PC/Laptop shows up as a serial port and all you need to control the board is a serial terminal application like HyperTerminal or Putty. This board can easily be controlled by writing simple serial port applications in VC++, VB, VBA (Word, Excell, etc), Perl, Python, etc.
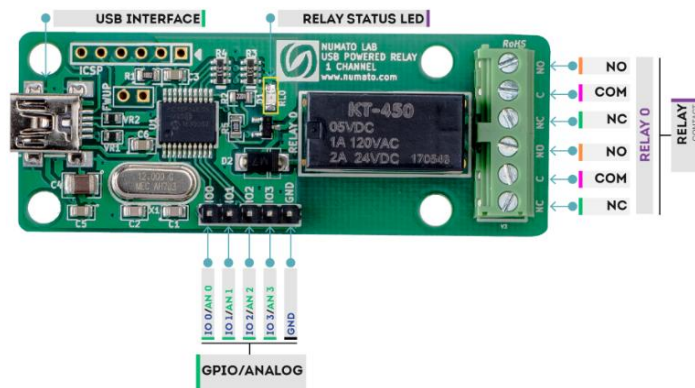
Features

- 1 onboard DPDT Relay.
- 2A Maximum Switching Current.
- 4 TTL Compatible GPIOs.
- 4 Analog Input Channels (Multiplexed with GPIOs).
- 10 bits Analog Input Resolution.
- USB interface with CDC support. As easy as using a serial port, no USB knowledge required.
- Relay contacts available on easy to access screw terminals.
- Can be powered from USB or external power supply.
- Can be controlled by using standard serial console applications or custom applications.
- No vendor specific libraries or APIs required

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Supporting operating Systems

- Windows XP
- Windows 7
- Windows 8/8.1
- Windows 10
- Linux
- Mac OS X
- Android

Specifications

Attribute	Value
Weight	0.1 lbs
Dimensions	5 × 3 × 1 in
Number Of Relays	1
Relay Type	Mechanical
Max Relay Current Rating	2A
Number Of GPIOs (Max)	4
Communication	USB
Analog Inputs(Max)	4(Multiplexed with IOs)
Analog Input Resolution	10 Bits
Operating Temperature	-30°C to +85°C