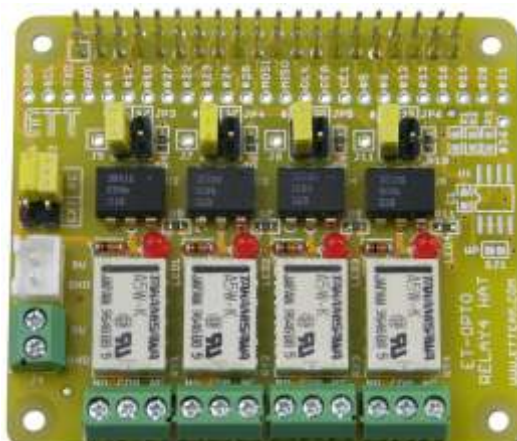


ET-OPTO RELAY4 HAT

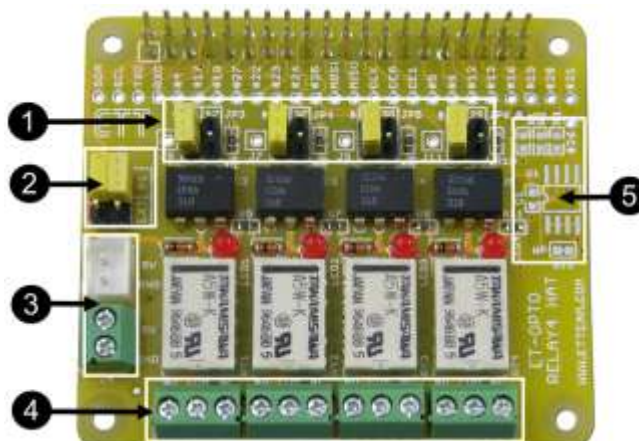


ET-OPTO RELAY HAT is mini Board RELAY 4-CH that is designed for use with Board Raspberry Pi.

Specifications of Board ET-OPTO RELAY4 HAT

- Be compatible with Board Raspberry Pi Model A+, Raspberry Pi Model B+, Raspberry Pi 2 Model B
- Have connectible area of Circuit ID-EEPROM (OPTION)
- Use Circuit OPTO-ISOLATE to control operation of RELAY
- Use RELAY 5VDC as 0.5A 125VAC Contact or 1A 30VDC Contact; it has both Connector NO and NC.
- Use Connector as long leg type, it piles boards up as required
- PCB Size: 6.5 x 5.6 cm.

Composition of Board ET-OPTO RELAY4 HAT



- **No.1:** This Jumper (JP3,JP4,JP5,JP6) chooses PIN GPIO that controls RELAY; RELAY is activated by Logic "1".
- **No.2:** This Jumper (JP1,JP2) chooses POWER SUPPLY for RELAY either from Board Raspberry Pi or external device
- **No.3:** It is Connector POWER SUPPLY of RELAY 5VDC (J3,J4) from external; it has to set JP3 and JP4 to the position of EXT.
- **No.4:** It is Connector Contact Relay that has both Connector NO and NC.
- **No.5:** it is connectible area of Circuit ID-EEPROM (OPTION).

How to connect Board ET-OPTO RELAY4 HAT



Example Program is written by Python Language

```
import RPi.GPIO as GPIO
import time
# Use GPIO references
GPIO.setmode(GPIO.BCM)
# Disable warnings
GPIO.setwarnings(False)

relays = [4,18,22,24]

for i in relays:
    GPIO.setup(i, GPIO.OUT)          # Set up all gpio as output
    GPIO.output(i, False)           # All gpio off

print "Test ET-OPTO RELAY4 HAT"
print "Press CTRL-C to exit"

try:
    while True:
        for i in relays:
            GPIO.output(i, True)
            time.sleep(1)
            GPIO.output(i, False)
            time.sleep(1)

except KeyboardInterrupt:
    # Reset GPIO settings
    GPIO.cleanup()
```


Circuit of Board ET-OPTO RELAY4 HAT

