Note: The LM2596 power module has 5V and 12V two versions. The 12V is with the same capacitor as the pictures, and the 5V has no capacitor!!

Application:

- 1. The 12V relay contact capacity is 10A 250V, with optocoupler protection. The onboard power module does not require an external power supply. I / O port drive low level is effective.
- 2. Can be used as a single-chip development board module, can be used as home appliance control, can also be used as a PLC expansion output.

Module features:

- 1. The voltage range of the control signal: the trigger signal is low level 0-2V; the high level voltage cannot exceed 5V.
- 2. Using industry-quality isolated optocoupler, strong anti-interference ability and stable performance; the trigger current only needs 3mA.
- 3. All channels 1-16 can be turned on / off arbitrarily, or arbitrarily.
- 4. Output form: directly connect the load of AC 220V 10A or DC30V 10A.
- 5. The common port COM of each relay is independent, which is convenient for users to access different signals. Each relay has a normally closed and a normally open port.
- 6. Each relay is equipped with an action indicator light, which attracts brightly and turns off when turned off.
- 7. The interface design is user-friendly. All interfaces can be directly led out through the wiring terminals, which is very convenient.
- 8. There are 4 fixing bolt holes for easy installation.
- 9. PCB board size: 180MM (L) * 80MM (W) * 20MM (H).

Electrical parameters:

Power supply voltage: 5V / 12V (DC) Supply current: greater than 200mA

Each relay can be loaded: 250V 10A (AC) or 30V 10A (DC)

Product instructions:

- 1. The power supply must meet the range of use, DC 12V;
- 2. The power supply should not be reversed according to the wiring diagram;
- 3. The product uses the LM2596S buck chip to generate a slight heat, which is a normal phenomenon. The relay also has a normal

heating phenomenon for a long time, which is a normal phenomenon;

4. The load power should leave a certain margin for the relay load, and the environment of

high power (about 2000W) and long working hours should be avoided, which will have a certain impact on the product life.