



The first part: Power part

It is composed of two AA series providing power.

## The second part: Burning program connector

### The third part: Display part

It displays by LED. When the LED displays red it is alarm. When the LED displays green it is network status.

#### The fourth part: sensor part

R15 and R16 provide power to the PIR. If PIR tests move signal, R5 will output to signal amplification.

## The fifth part: signal amplification part

The C20 coupling signal is amplified by U3-A and U3-B. The 7 pin output to the

signal shaping.

The sixth part: signal shaping

U3-C and U3-D are consisted of comparator. When the R32 input signal higher than the setting voltage of U3-D or lower than U3-C. PIR\_H and PIR\_L will output a difference level to MCU.

The seventh part: MCU and wireless for sending

MCU CC1101F32 is deal with the signal from PIR\_H and PIR\_L, modulate the 908~919MHz signal, Crystal 26MHZ is the work frequency of the MCU providing , then MCU sends the signal to U2Bulan. Antenna sends it to Wireless Gateway.