

. General Description:

The MCU provides high cost-performance for Pyroelectric Infrared Sensor application. It designs by LSI high technology with low power CMOS process.

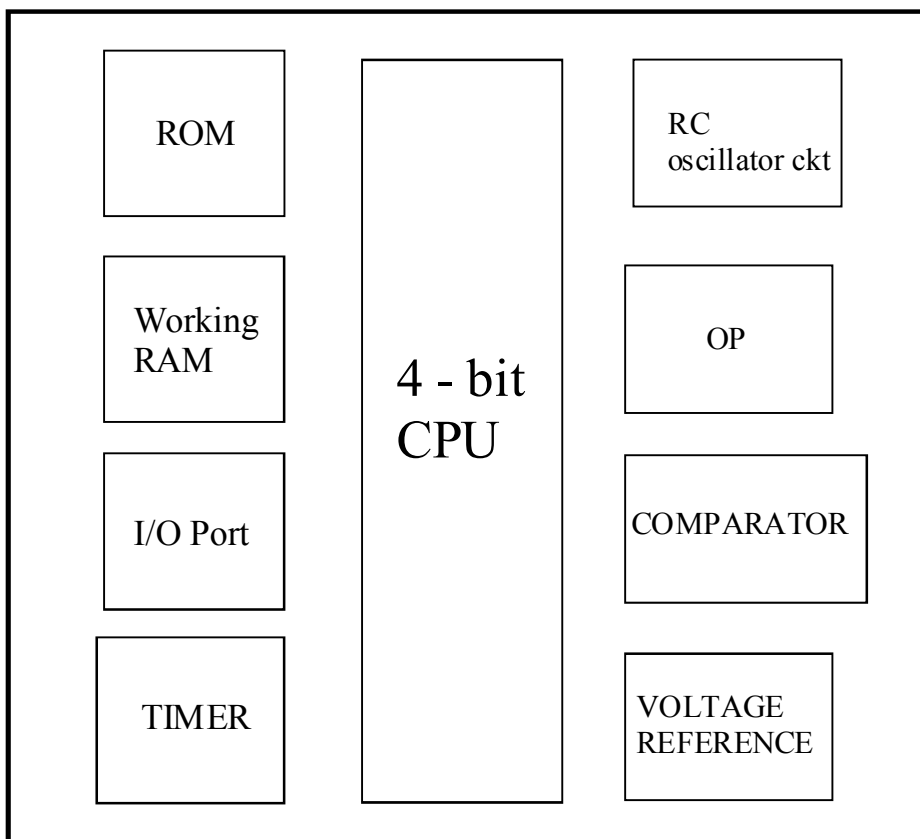
. Features:

- ✧ Use 4 bits microprocessor core
- ✧ Operating Voltage:
 - OTP : 2.4v-5.5v (TTR561)
 - Mask : 2.4-5.5v (TTU561)
- ✧ System oscillator
 - 32Khz RC oscillator external Resistor and Capacitor (OSCL)
 - Built-in 256Khz RC oscillator (OSCH)
- ✧ User ROM 1K*16, RAM 64*4
- ✧ Built-in 2 stacks
- ✧ Built-in one 8-bit Timer/Counter with internal overflow interrupt
- ✧ Built-in time base timer function with overflow interrupt function
- ✧ Built-in watch dog timer function
- ✧ Built-in analog signal wake up & interrupt function
- ✧ Built-in low power consumption CMOS OP*2(operation amplifier)
- ✧ Provide 8 I/O ports (share with 6 channel comparator input)
- ✧ Provide 6 channel comparator input with internal voltage reference
- ✧ Provide three voltage reference
- ✧ Provide internal reset function and external reset pin

. Application:

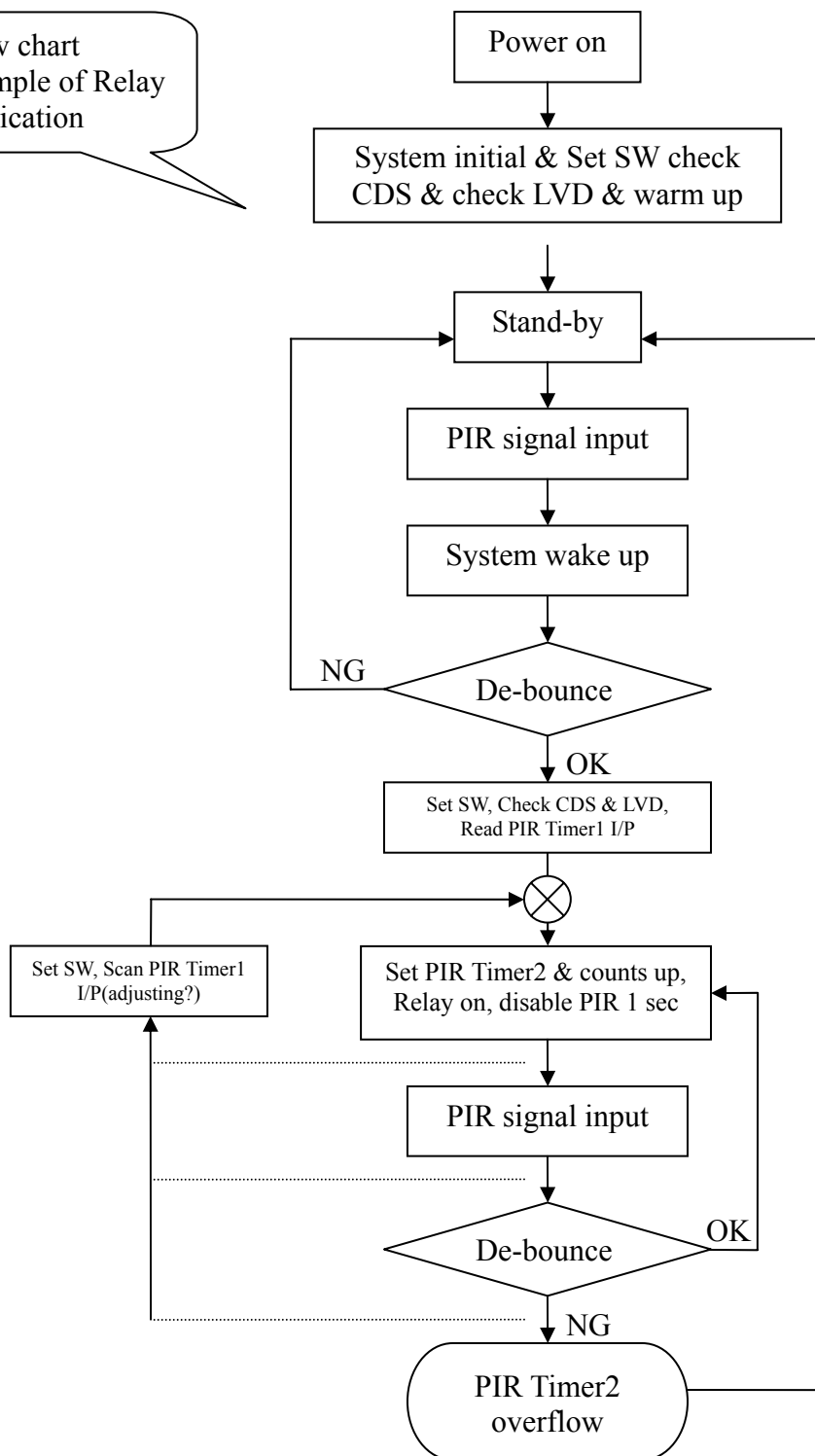
- PIR security application (Motion sensor)
- Sensor detected application (IR sensor/ Shock sensor etc.)
- 運放 + 單片機整合運用

. Block Diagram

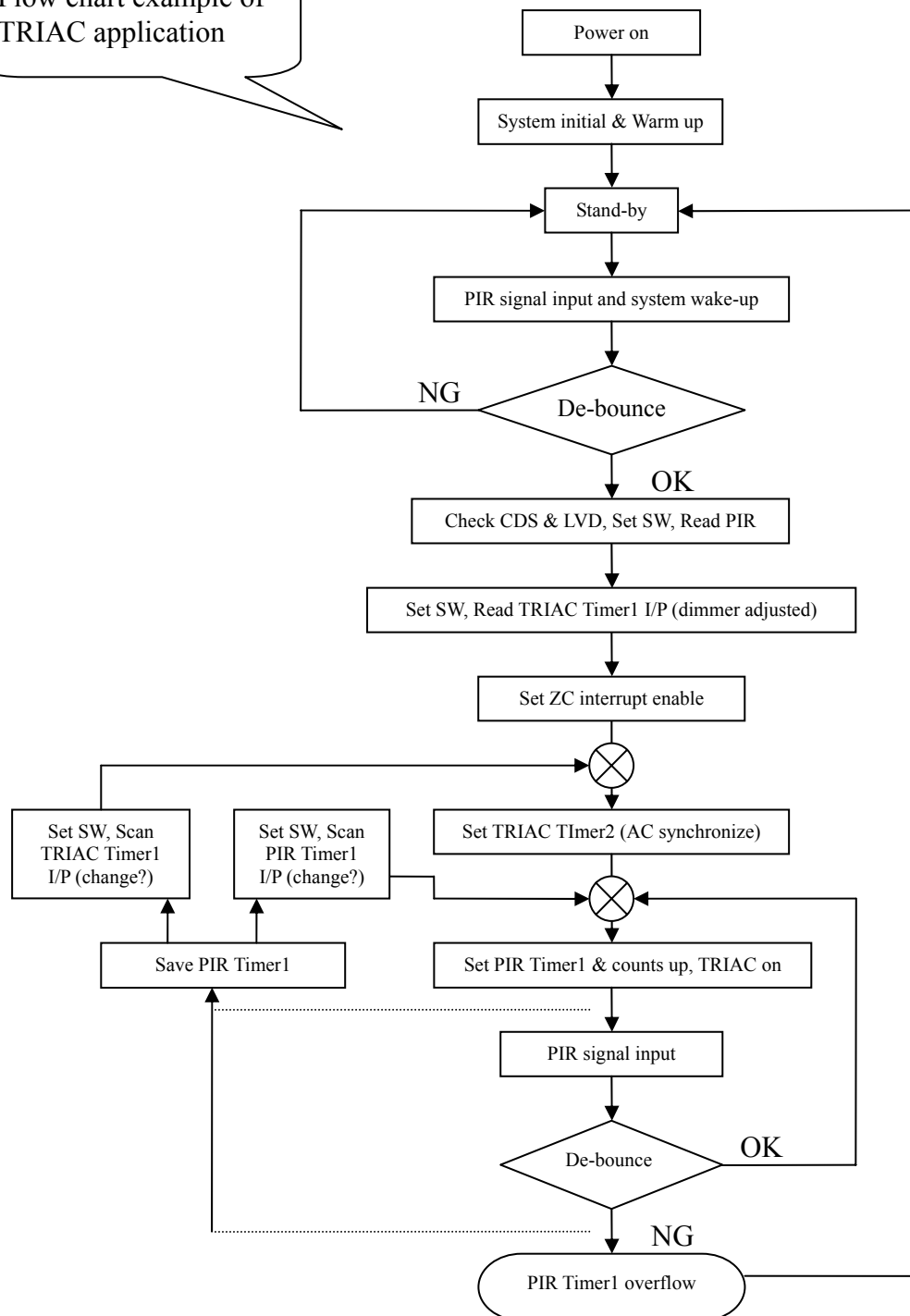


PIR-3

Flow chart
example of Relay
application

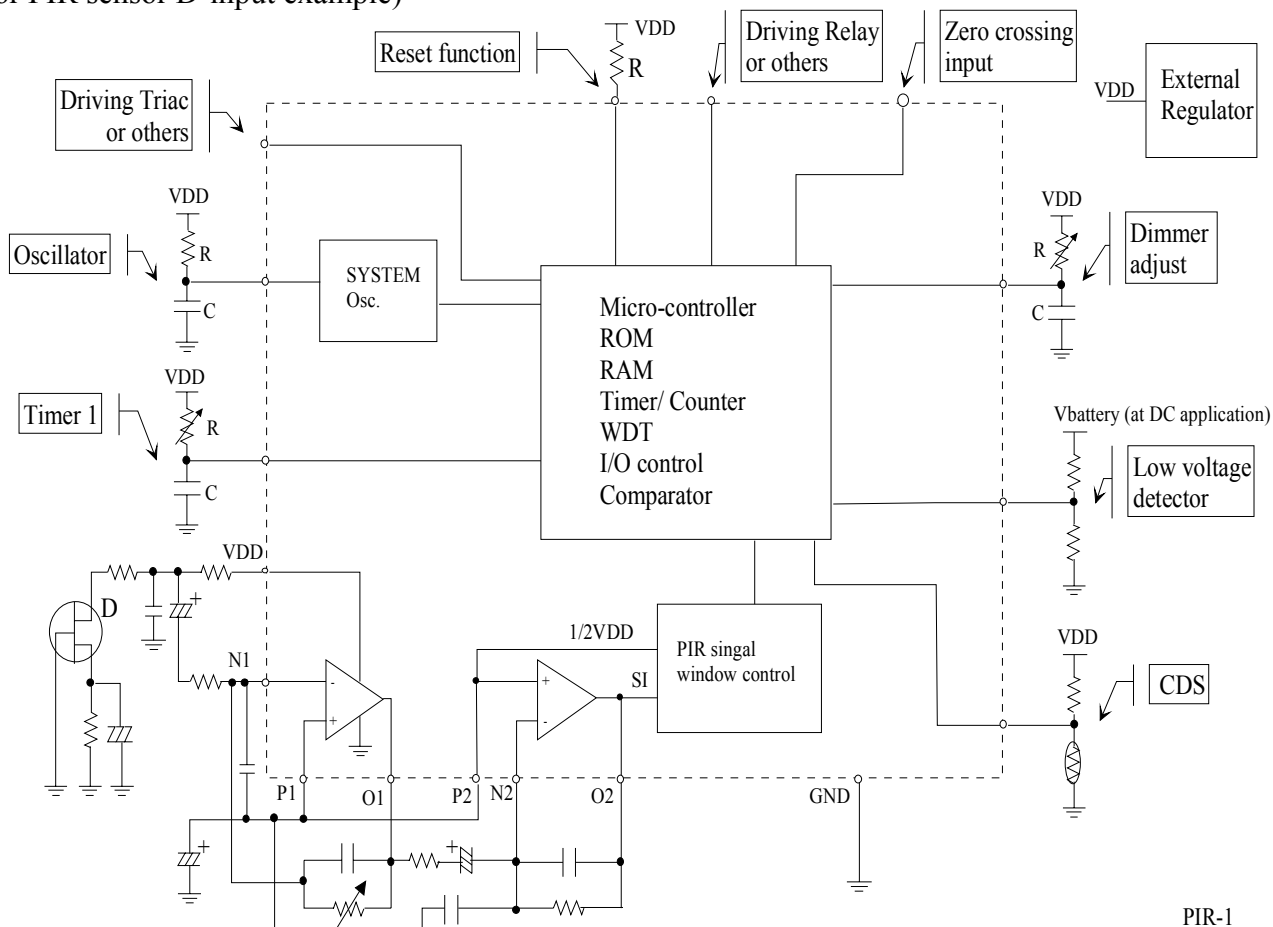


Flow chart example of
TRIAC application



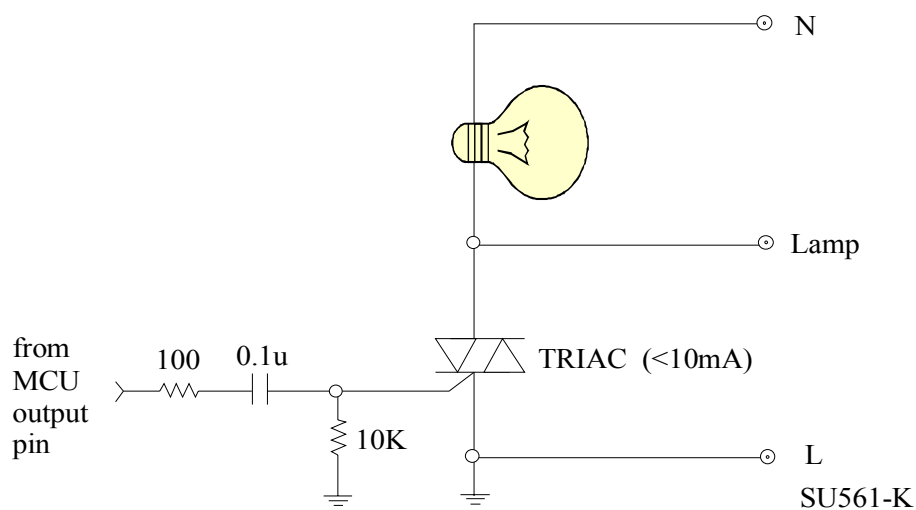
.. Application Circuit

(For PIR sensor D-input example)



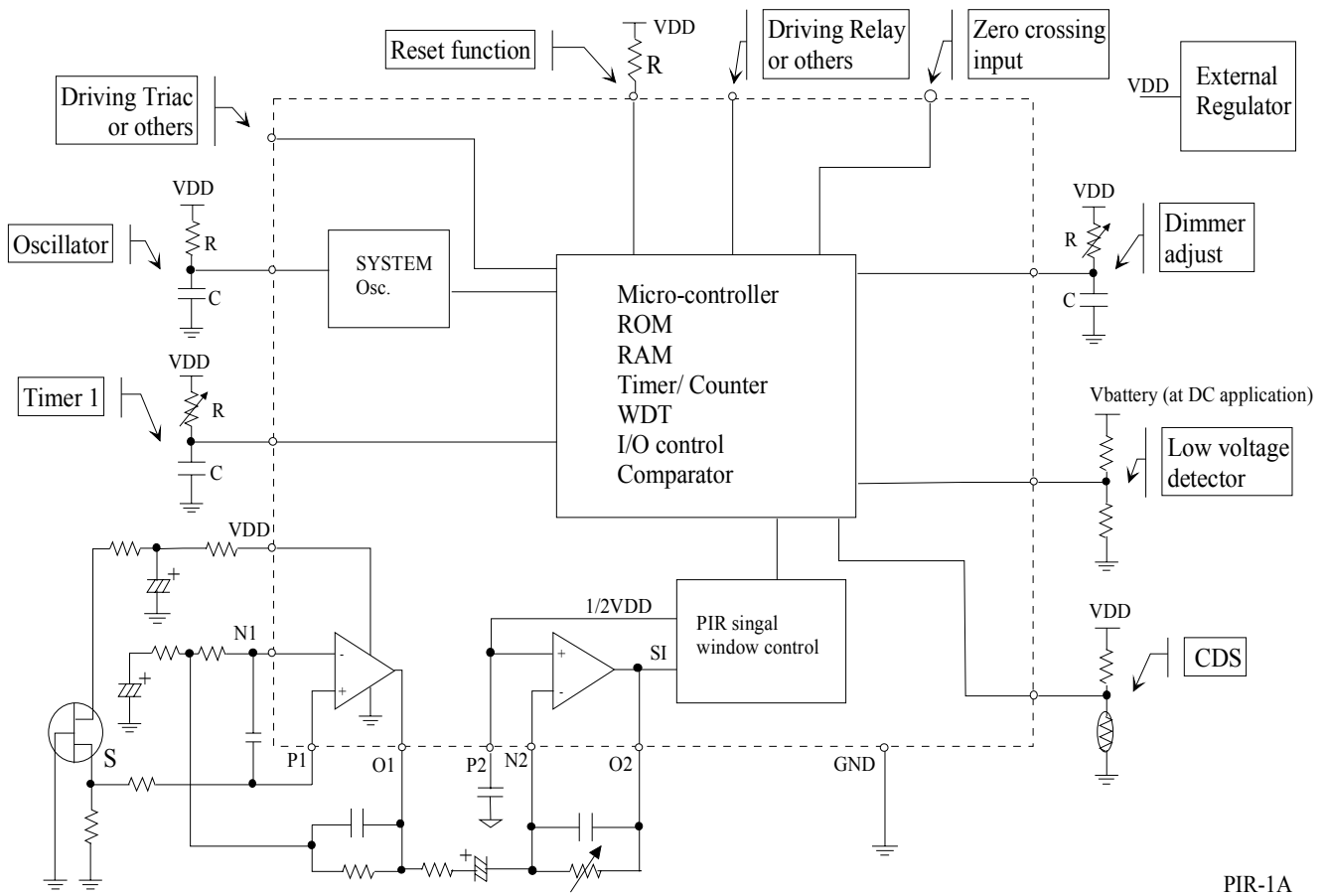
PIR-1

(Example circuit of driving TRIAC)



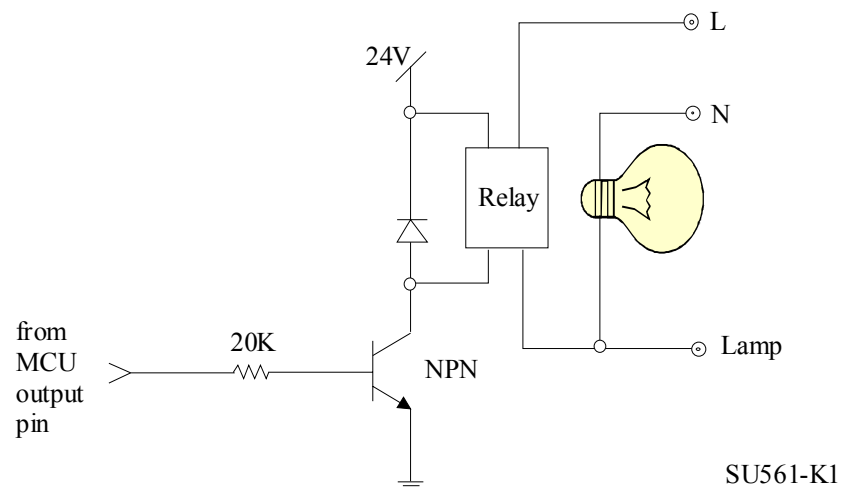
(Note : You can change 0.1u capacitor for difference TRIAC)

(For PIR sensor S-input example)



PIR-1A

(Example circuit of driving RELAY)



SU561-K1