**基站异构通络机制程序程序**

1. **重力感应**

主函数

#include <reg52.h>

#include <intrins.h>

#include <stdio.h>

#include <math.h>

#include "delay.h"

sbit buzzer=P2^0;

unsigned long times\_20ms=0;

unsigned char baojignFlag = 0;

unsigned char reportFlag = 0;

void Init\_Timer0(void);

void UART\_Init(void);

void SendByte(unsigned char dat);

void SendStr(unsigned char \*s,unsigned char length);

void main (void)

{

Init\_Timer0();

UART\_Init();

DelayMs(100);

SendStr("ready ok !",10);

while(1)

{

if(reportFlag == 1)

{

reportFlag = 0;

if(baojignFlag == 1)

{

buzzer = !buzzer;

}

else

{

buzzer = 1;

}

}

}

}

void Init\_Timer0(void)

{

TMOD |= 0x01;

TH0=(65536-20000)/256;

TL0=(65536-20000)%256;

EA=1;

ET0=1;

TR0=1;

}

void UART\_Init(void)

{

SCON = 0x50;

TMOD |= 0x20;

TH1 = 0xFD;

TL1 = TH1;

TR1 = 1;

EA = 1;

ES = 1;

}

void SendByte(unsigned char dat)

{

unsigned char time\_out;

time\_out=0x00;

SBUF = dat;

while((!TI)&&(time\_out<100))

{time\_out++;DelayUs2x(10);}

TI = 0;

}

void SendStr(unsigned char \*s,unsigned char length)

{

unsigned char NUM;

NUM=0x00;

while(NUM<length)

{

SendByte(\*s);

s++;

NUM++;

}

}

void Timer0\_isr(void) interrupt 1

{

TH0=(65536-20000)/256;

TL0=(65536-20000)%256;

times\_20ms++;

if(times\_20ms%10==0)

{

reportFlag =1;

}

}

void UART\_SER (void) interrupt 4

{

if(RI)

{

RI=0;

if(SBUF == '\*')

{

baojignFlag = 1;

}

else if(SBUF == '#')

{

baojignFlag = 0;

}

}

if(TI)

TI=0;

}

**二、蓝牙远距离报警**

主函数

#include <reg52.h>

#include "uart1.h"

#include "Timer0.h"

sbit Speaker\_Pin=P2^0;

sbit LED\_Pin=P0^0;

unsigned char MS100\_Con=0;

unsigned char OneSec\_Con=0;

void delay3s(void)

{

unsigned char a,b,c;

for(c=85;c>0;c--)

for(b=188;b>0;b--)

for(a=85;a>0;a--);

}

void main()

{

LED\_Pin=0;

delay3s();

LED\_Pin=1;

Uart1\_Init();

Timer0\_Init();

while(1)

{

if(MS100\_Con>=10)

{

MS100\_Con=0;

Uart1\_SendOneByte(0xa0);

}

if(Uart1\_Receive\_Change)

{

Uart1\_Receive\_Change=0;

if(Uart1\_Receive\_Data==0xa0)

{

OneSec\_Con=0;

Speaker\_Pin=1;

LED\_Pin=~LED\_Pin;

}

}

if(OneSec\_Con>=100)

{

OneSec\_Con=0;

Speaker\_Pin=0;

LED\_Pin=0;

}

}

}

void Timer0\_Interrupt(void) interrupt 1

{

TH0 = 0xDc;

TL0 = 0x00;

MS100\_Con++;

OneSec\_Con++;

}

**三、WIFI**

#include <STC15xxxx.h>

#include "setting.h"

#include <stdlib.h>

#include <string.h>

#include <stdio.h>

void init8266();

void transmit(char \*str1,char \*str2);

void main()

{

u16 i=0;

init\_uart();

P1=0x0f;

delay100ms(2);

do

{

ini\_rec\_buff();

at\_uart\_send\_str(AT);

delay1s(2);

}while(strstr(recd\_buf,at\_ok\_code)==NULL);

ini\_rec\_buff();

delay100ms(10);

P11=0;

init8266();

while(1)

{

delay1s(2);

ini\_rec\_buff();

clearStr(RX1\_Buffer,160);

at\_uart\_send\_str(CWLAP);

do

{

delay1s(3);

}while(strstr(recd\_buf,at\_et\_code)==NULL);

delay1s(3);

P11=0;

strcat(RX1\_Buffer,ESP\_Num);

strcat(RX1\_Buffer,(recd\_buf+11));

ini\_rec\_buff();

transmit(CIPSEND,at\_ok\_code);

delay100ms(10);

ini\_rec\_buff();

P12=0;

do

{

at\_uart\_send\_str(RX1\_Buffer);

delay1s(3);

}while(strstr(recd\_buf,at\_et\_code)==NULL);

delay1s(2);

ini\_rec\_buff();

P13=0;

}

}

void transmit(char \*str1,char \*str2)

{

at\_uart\_send\_str(str1);

do

{

delay1ms(3);

}while(strstr(recd\_buf,str2)==NULL);

void init8266() {

transmit(CWMODE,at\_ok\_code);

delay100ms(1);

ini\_rec\_buff();

transmit(CWJAP,at\_cnd\_code);

delay1s(20);

ini\_rec\_buff();

P11=1;

transmit(CIPMUX,at\_ok\_code);

delay100ms(1);

ini\_rec\_buff();

transmit(CIPSERVER,at\_ok\_code);

delay100ms(1);

ini\_rec\_buff();

transmit(CWLAPOPT,at\_ok\_code);

delay100ms(10);

ini\_rec\_buff();

P10=0;

do

{

delay1ms(3);

}while(strstr(recd\_buf,at\_cn\_code)==NULL);

ini\_rec\_buff();

P11=0;

}