#include <reg52.h>

#include <intrins.h>

#include <stdio.h>

#include <string.h>

sfr AUXR = 0x8E;

#define uchar unsigned char

#define uint unsigned int

#define ON 0

#define OFF 1

sbit key\_led = P1^0; //

sbit key\_open = P1^7; //

sbit key\_close = P1^6; //

sbit key\_up = P1^1; //

sbit key\_down = P1^5; //

sbit key\_stop = P1^2; //

uchar t0\_num=0;flag\_time=0,on;

void delayms(uint xms)

{

uint i,j;

for(i=xms;i>0;i--)

for(j=110;j>0;j--);

}

void Heart\_Beat\_init () //上电时候发的心跳包，我觉得应该把product\_num改为device\_number

{

uint x;

for (x=0;x<4;x++)

{

key\_led = ~key\_led;

ES = 0;

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"00\_00\_00\"}}");

while (!TI);

TI = 0;

ES = 1;

delayms(10000);

}

}

void init(void) //115200

{

PCON &= 0x7F; //²¨ÌØÂÊ²»±¶ËÙ £¨STC11µ¥Æ¬»ú/1TÐÍ£©

SCON = 0x50; //8Î»Êý¾Ý,¿É±ä²¨ÌØÂÊ

AUXR |= 0x40; //¶¨Ê±Æ÷1Ê±ÖÓÎªFosc,¼´1T

AUXR &= 0xFE; //´®¿Ú1Ñ¡Ôñ¶¨Ê±Æ÷1Îª²¨ÌØÂÊ·¢ÉúÆ÷

TMOD &= 0x0F; //Çå³ý¶¨Ê±Æ÷1Ä£Ê½Î»

TMOD |= 0x20; //Éè¶¨¶¨Ê±Æ÷1Îª8Î»×Ô¶¯ÖØ×°·½Ê½

TH0 = (65536-50000)/256;

TL0 = (65536-50000)%256;

TL1 = 0xFD; //Éè¶¨¶¨Ê±³õÖµ

TH1 = 0xFD; //Éè¶¨¶¨Ê±Æ÷ÖØ×°Öµ

ET1 = 0; //½ûÖ¹¶¨Ê±Æ÷1ÖÐ¶Ï

ET0 = 1;

TR1 = 1; //Æô¶¯¶¨Ê±Æ÷1

EA=1; //¿ª×ÜÖÐ¶Ï

ES=1; //¿ª´®¿ÚÖÐ¶Ï

}

void key\_init () //初始化P1脚 11111111

{

P1 = 0xFF;

}

void keyscan(void) //触摸按键，触发响应行为（串口发送指令）

{

if (key\_open==0||key\_close==0||key\_up==0||key\_down==0||key\_stop==0)

{

if(key\_open==0) //打开

{

delayms(5);

if(key\_open==0)

{

key\_led = ON;

while (!key\_open);

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"01\_10\_01\"}}");

while (!TI);

TI = 0;

delayms(5);

}

key\_led = OFF;

}

delayms(5);

if(key\_close==0) //关闭 {

delayms(5);

if(key\_close==0)

{

key\_led = ON;

while (!key\_close);

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"00\_10\_01\"}}");

while (!TI);

TI = 0;

delayms(5);

}

key\_led = OFF;

}

delayms(5);

if(key\_up==0) //上升 {

delayms(5);

if(key\_up==0)

{

key\_led = ON;

while (!key\_up);

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"10\_01\_01\"}}");

while (!TI);

TI = 0;

ES = 1;

delayms(5);

}

key\_led = OFF;

}

delayms(5);

if(key\_down==0) //下降

{

delayms(5);

if(key\_down==0)

{

key\_led = ON;

while (!key\_down);

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"10\_00\_01\"}}");

while (!TI);

TI = 0;

delayms(5);

}

key\_led = OFF;

}

delayms(5);

if(key\_stop==0) //停止所有动作

{

delayms(5);

if(key\_stop==0)

{

key\_led = ON;

while (!key\_stop);

TI = 1;

puts ("{\"first\_type\":\"AAKG\",\"second\_type\":\"AACT\",\"product\_num\":\"1\",\"state\":{\"current\_status\":\"00\_00\_00\"}}");

while (!TI);

TI = 0;

key\_led = OFF;

delayms(5);

}

}

delayms(5);

}

}

void main()

{

init();

Heart\_Beat\_init();

key\_init();

key\_led = OFF;

while (1)

{

keyscan();

delayms(10);

}

}