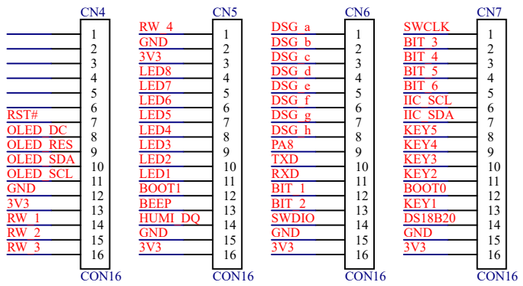
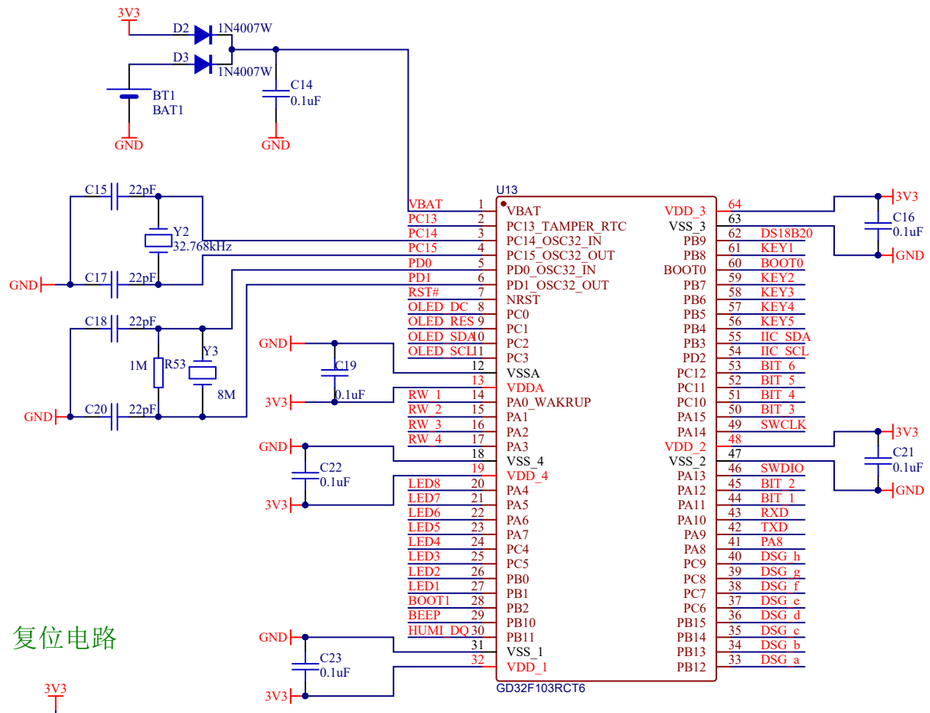
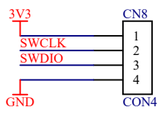
MCU电路

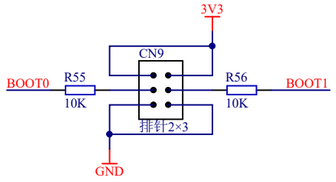




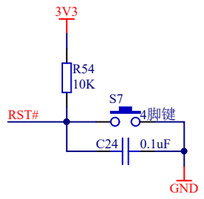
SWD接口



BOOT电路



复位电路



注:退耦电容尽量靠进电源引脚

***GD32*采用*LQFP64*封装**

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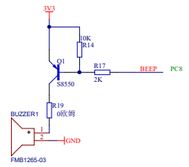
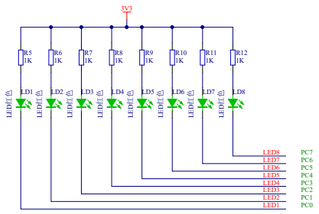
File: C:\Users\..\GD32F103RCT6.SchDoc		Drawn By:

蜂鸣器电路

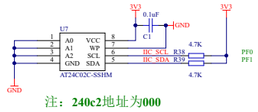


注:蜂鸣器采用*3.3V* 直径*12mm*封装

LED电路

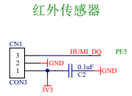


240c2存储

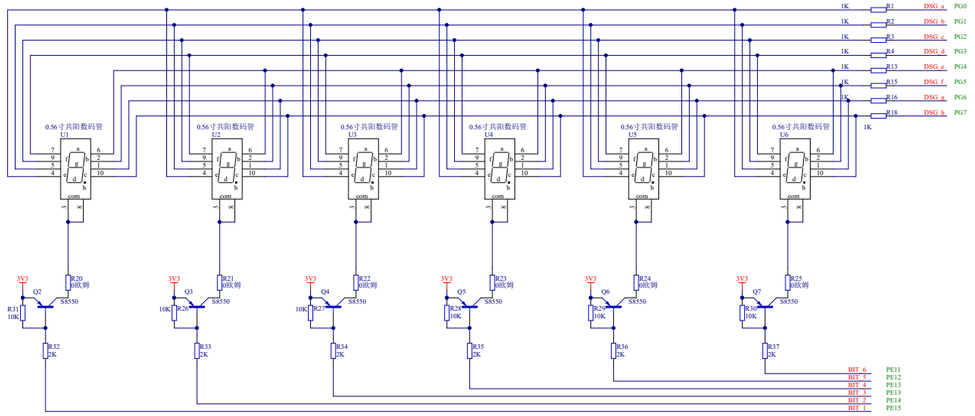


注：**240c2**地址为**000**

红外传感器



数码管电路



注：采用单个共阳数码管**0.56**寸
*S8550*采用*SOT-23*封装

OLED接口

注：采用中景源*0.96OLED*　尺寸*26x26mm*

按键电路

注：按键开关采用半四脚*4x4*贴片封装

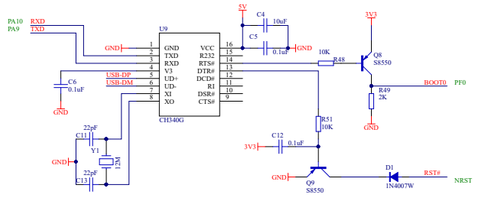
DS18B20温度传感器

注：**DS18B20**温度传感器采用直插封装

电位器

注:采用电位器*3362* 直插封装 *104*

串口转USB



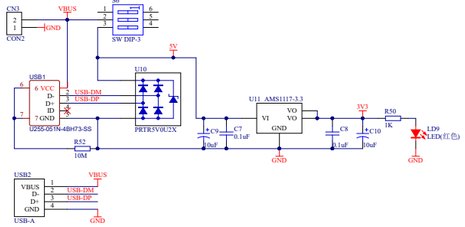
注:*s8050*采用*SOT-23*封装

晶振采用*HC-49*直插封装

在使用一键下载时，在软件*FlyMCU*中勾选编程后运行，选择*DTR*高电平复位*RTS*高电平*Bootloader*

使用一键下载前，保证*BOOT1*接*GND*，*BOOT0*接地

电源电路



注:*AMS1117-3.3*最大输出电流为*1A*　*AMS1117-3.3*采用*SOT-223*

*USB*接口采用*miniUSB*和*USB-A*封装　*DC*电源座采用*5.5mm-2.1mm*封装

六脚自锁开关采用*8X8mm*封装

备注：

所有电容均采用*0805*封装

所有电阻均采用*0805*封装

所有*LED*均采用*0805*封装

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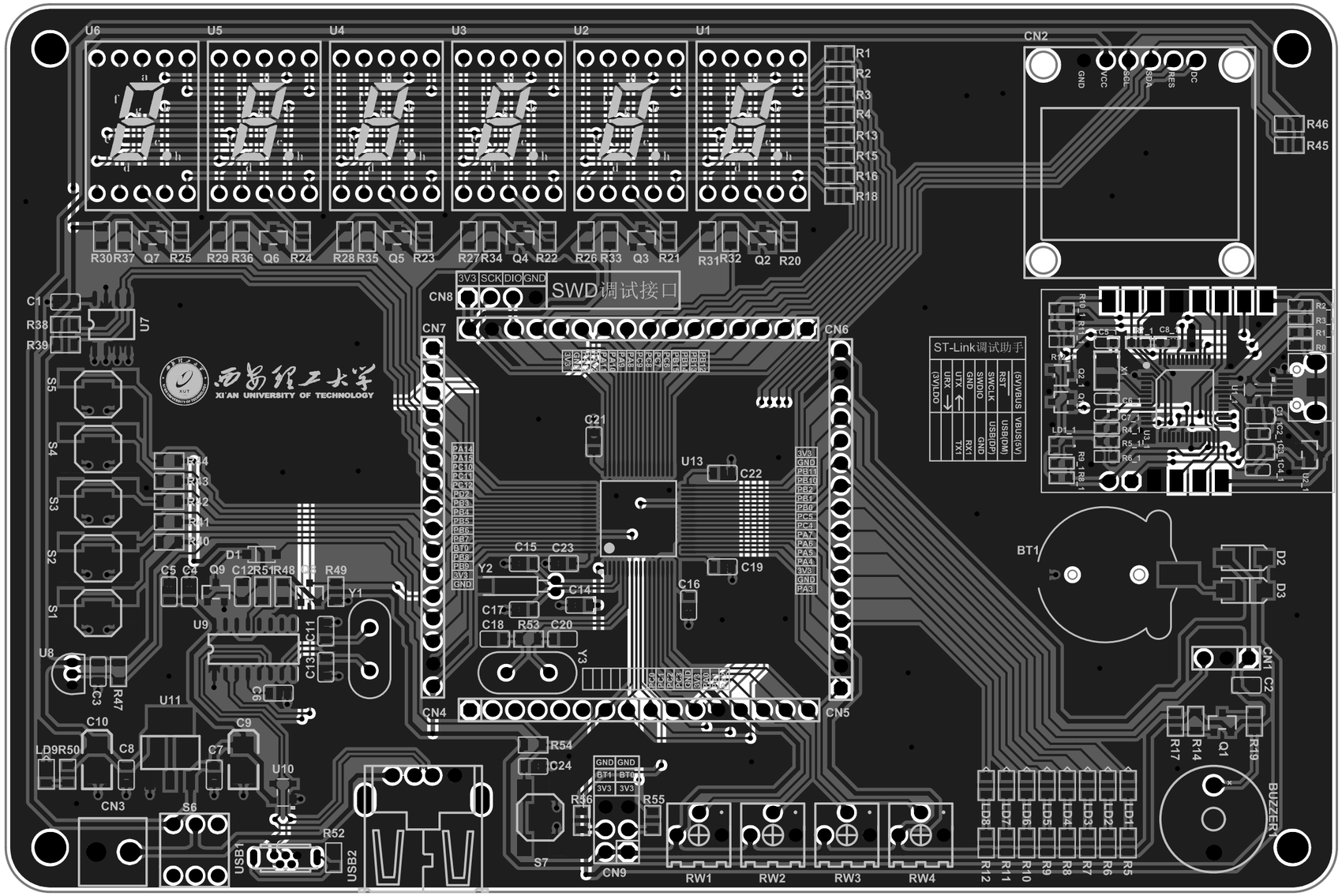
File: C:\Users\...\peripheral device.SchDoc		Drawn By:


U6
U5
U4
U3
U2
U1
CN2
GND
VCC
SCL
SDA
RES
DC
R1
R2
R3
R4
R13
R15
R16
R18
R46
R45
R30 R37 Q7 R25 R29 R36 Q6 R24 R28 R35 Q5 R23 R27 R34 Q4 R22 R26 R33 Q3 R21 R31 R32 Q2 R20
3V3 SCK DIO GND
SWD调试接口
CN8
CN7
CN6
ST-Link调试助手
(3V)LDO
URX
UTX
GND
SWDIO
SWCLK
RST
(5V)VBUS
USB(DP)
RX1
TX1
USB(DM)
VBUS(5V)
西安理工大学
XI'AN UNIVERSITY OF TECHNOLOGY
C1
R38
R39
U7
S5
S4
S3
S2
S1
C21
U13
C22
C19
C16
C15
C23
C14
C17
C18
R53
C20
Y2
Y3
Y1
D1
C5
C4
Q9
C12
R51
R48
R49
U9
C11
C13
C6
U8
C3
R47
U11
C10
C9
C8
C7
LD9
R50
CN3
S6
U10
USB1
R52
USB2
CN4
CN5
R54
C24
R16
R55
S7
CN9
GND GND
BT1 BT0
3V3 3V3
RW1
RW2
RW3
RW4
LD8 LD7 LD6 LD5 LD4 LD3 LD2 LD1
R12 R11 R10 R9 R8 R7 R6 R5
BT1
D2
D3
CN1
C2
R17
R14
Q1
R19
BUZZER1

Board S