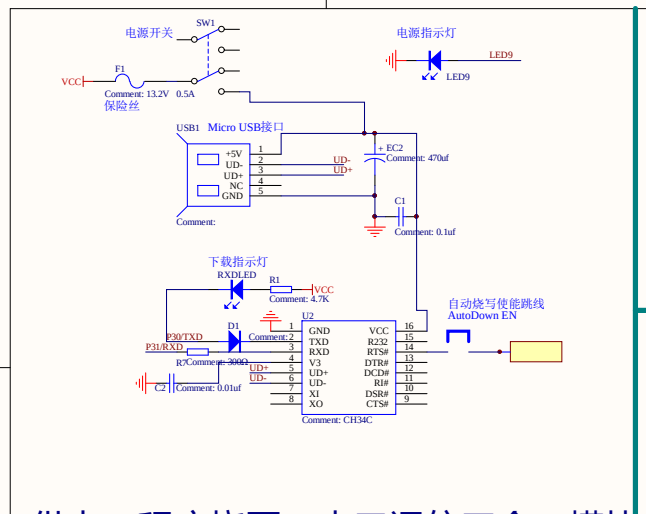
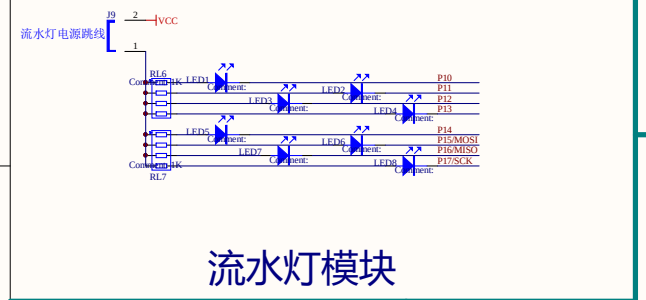
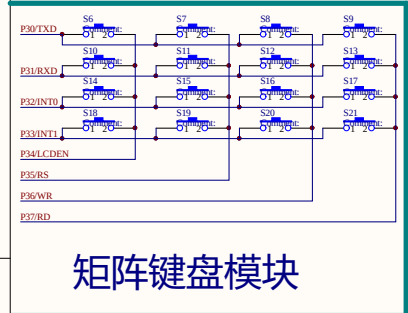
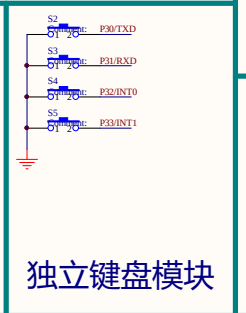
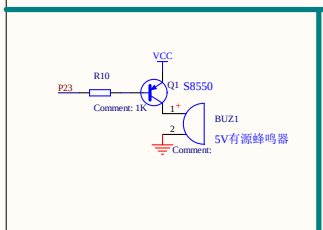
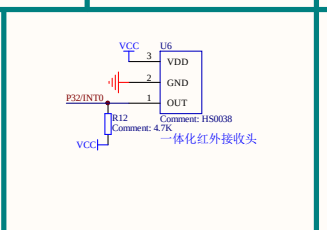

电源开关
SW1
电源指示灯
LED9
F1
Comment: 13.2V 0.5A
保险丝
USB1 Micro USB接口
+5V
UD-
UD+
NC
GND
+ EC2
Comment: 470uf
C1
Comment: 0.1uf
下载指示灯
RXDLED
R1
Comment: 4.7K
VCC
U2
GND
TXD
RXD
V3
UD+
UD-
XI
XO
VCC
RS232
RTS#
DTR#
DCD#
RI#
DSR#
CTS#
16
15
14
13
12
11
10
9
Comment: CH34C
D1
Comment: 2
P30/TXD
P31/RXD
R2
Comment: 300Ω
C2
Comment: 0.01uf
自动烧写使能跳线
AutoDown EN
供电、程序烧写、串口通信三合一模块

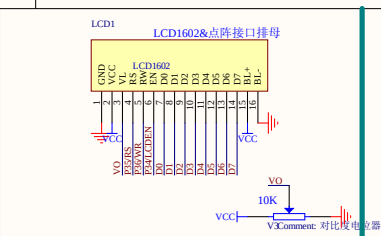

流水灯电源跳线
J9
2
1
VCC
RL6
Comment: 10K
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
RL7
Comment: 10K
P10
P11
P12
P13
P14
P15/MOSI
P16/MISO
P17/SCK
流水灯模块

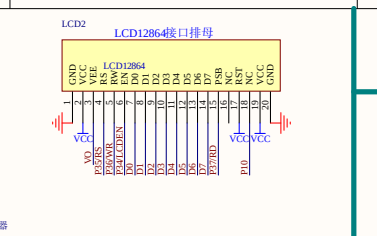

P30/TXD
P31/RXD
P32/INT0
P33/INT1
P34/LCDEN
P35/RS
P36/WR
P37/RD
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
Comment: 4*5
矩阵键盘模块

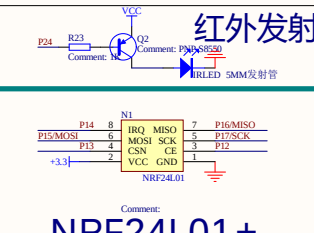

S2
S3
S4
S5
P30/TXD
P31/RXD
P32/INT0
P33/INT1
独立键盘模块

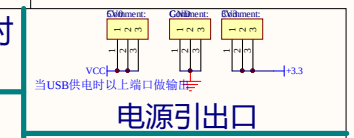

VCC
R10
P23
Comment: 1K
Q1 S8550
BUZ1
5V有源蜂鸣器
Comment:
蜂鸣器模块

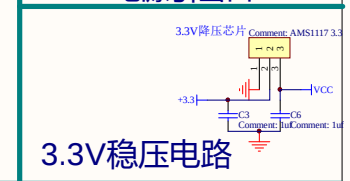

VCC
U6
VDD
GND
OUT
3
2
1
P32/INT0
R12
Comment: 4.7K
Comment: HS0038
一体化红外接收头
红外接收模块

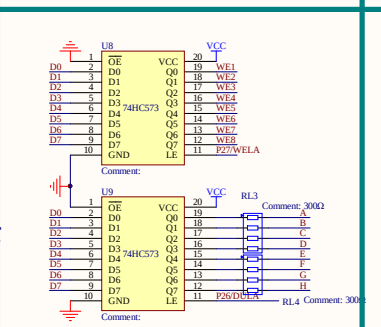

LCD1
LCD1602&点阵接口排母
LCD1602
GND
VCC
VL
RS
RW
EN
D0
D1
D2
D3
D4
D5
D6
D7
BL+
BL-
VO
P35/RS
P36/WR
P34/LCDEN
10K
V3
Comment: 对比度电位器
1602液晶接口电路

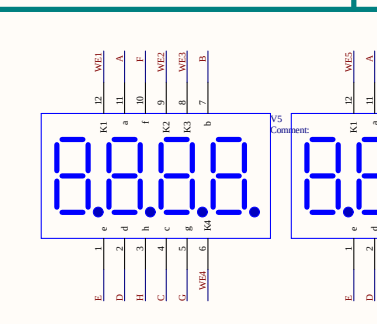

LCD2
LCD12864接口排母
LCD12864
GND
VCC
VEE
RS
RW
EN
D0
D1
D2
D3
D4
D5
D6
D7
PSB
NC
RST
NC
VCC
GND
VO
P35/RS
P36/WR
P34/LCDEN
P37/RD
P10
12864液晶接口电路

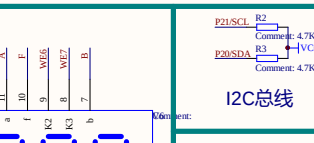

VCC
P24
R23
Comment: 1K
Q2
Comment: P8550
IRLED 5MM发射管
红外发射
N1
P14
P15/MOSI
P13
+3.3
IRQ
MOSI
CSN
VCC
MISO
SCK
CE
GND
P16/MISO
P17/SCK
P12
NRF24L01
Comment:
NRF24L01+
2.4G无线模块接口

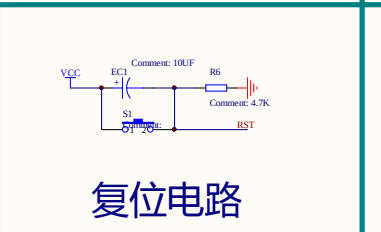

Comment:
Comment:
Comment:
VCC
+3.3
当USB供电时以上端口做输出
电源引出口

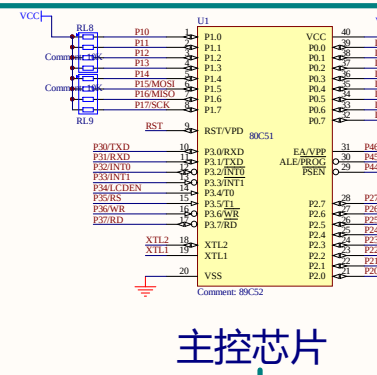

3.3V降压芯片
Comment: AMS1117 3.3
+3.3
VCC
C3
Comment: 1uf
C6
Comment: 1uf
3.3V稳压电路

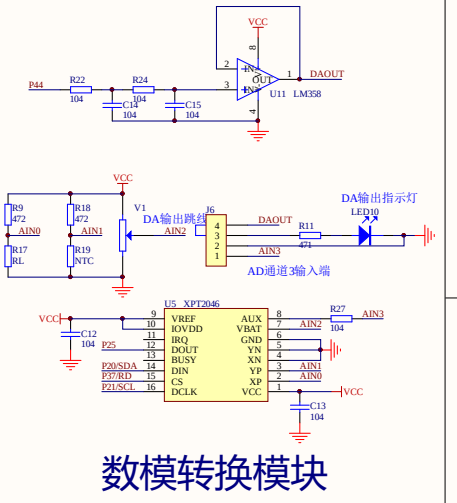

U8
U9
74HC573
VCC
GND
OE
LE
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
P27/WELA
P26/DULA
RL3
Comment: 300Ω
RL4
Comment: 300Ω
数码管锁存器模块

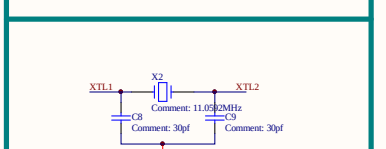

WE1
WE2
WE3
WE4
WE5
WE6
WE7
WE8
K1
K2
K3
K4
V5
Comment:
8位共阴极数码管

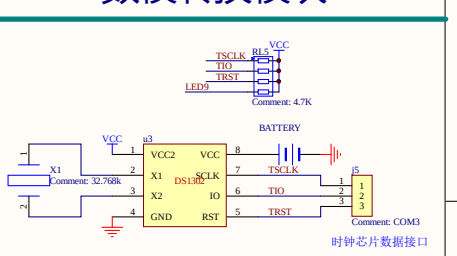

P21/SCL
P20/SDA
R2
R3
Comment: 4.7K
VCC
I2C总线
U4
AT24C02
A0
A1
A2
GND
VCC
WP
SCL
SDA
Comment: 24C02
EEPROM模块

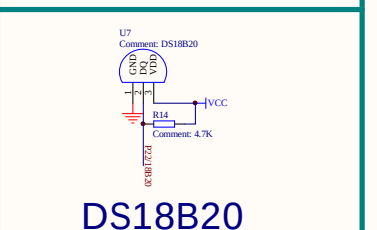

VCC
EC1
Comment: 10UF
R6
Comment: 4.7K
S1
RST
复位电路

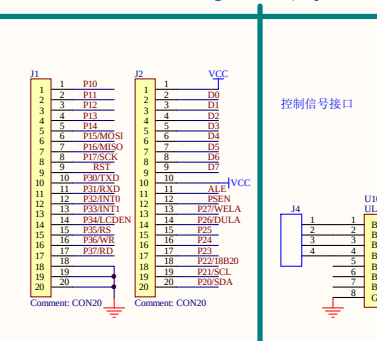

U1
P1.0
P1.1
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
RST/VPD
80C51
P3.0/RXD
P3.1/TXD
P3.2/INT0
P3.3/INT1
P3.4/T0
P3.5/T1
P3.6/WR
P3.7/RD
XTL2
XTL1
VSS
EA/VPP
ALE/PROG
PSEN
P2.7
P2.6
P2.5
P2.4
P2.3
P2.2
P2.1
P2.0
Comment: 89C52
RL8
RL9
RL2
Comment: 10K
C5
Comment: 0.1uF
电源滤波电容
主控芯片

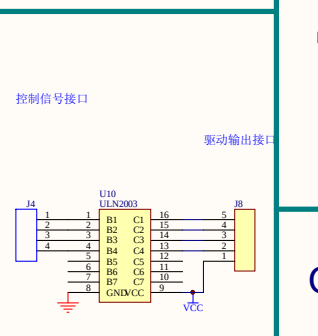

VCC
R9
472
AIN0
R18
472
AIN1
R17
RL
R19
NTC
V1
DA输出跳线
AIN2
J6
DAOUT
R11
471
AIN3
DA输出指示灯
LED10
AD通道3输入端
U5 XPT2046
VREF
IOVDD
IRQ
DOUT
BUSY
DIN
CS
DCLK
AUX
VBAT
GND
YN
XN
YP
XP
VCC
P20/SDA
P37/RD
P21/SCL
R27
AIN3
C12
104
C13
104
数模转换模块


XTL1
X2
XTL2
Comment: 11.0592MHz
C8
Comment: 30pf
C9
Comment: 30pf
单片机 晶振电路


TSCLK
TIO
TRST
RL5
Comment: 4.7K
LED9
VCC
BATTERY
u3
VCC2
X1
X2
GND
SCLK
IO
RST
DS1302
TSCLK
TIO
TRST
J5
Comment: COM3
X1
Comment: 32.768k
时钟芯片数据接口
DS1302
实时时钟模块


U7
Comment: DS18B20
GND
DQ
VDD
VCC
R14
Comment: 4.7K
P27/18B20
DS18B20
温度传感器接口


J1
J2
P10
P11
P12
P13
P14
P15/MOSI
P16/MISO
P17/SCK
RST
P30/TXD
P31/RXD
P32/INT0
P33/INT1
P34/LCDEN
P35/RS
P36/WR
P37/RD
VCC
D0
D1
D2
D3
D4
D5
D6
D7
ALE
PSEN
P27/WELA
P26/DULA
P25
P24
P23
P22/18B20
P21/SCL
P20/SDA
Comment: CON20
Comment: CON20
排针引出所有IO口


控制信号接口
驱动输出接口
J4
U10
ULN2003
J8
B1
B2
B3
B4
B5
B6
B7
GND/CC
C1
C2
C3
C4
C5
C6
C7
VCC
电机驱动模块

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