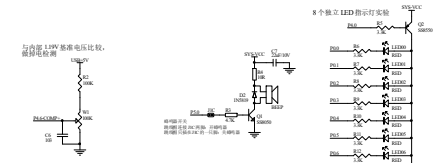

STC大学计划实验箱 STC8051U V1.1 原理图

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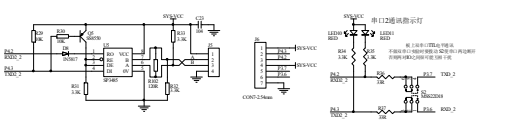
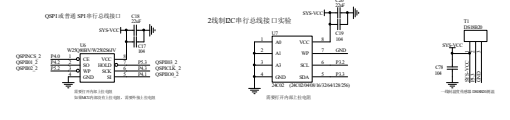
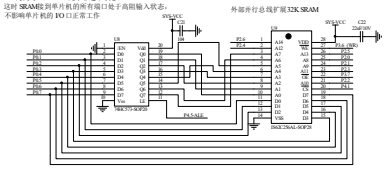




P4.1为高时 U9 SRAM 处于非选中状态，
这时 SRAM及到单片机的所有端口处于高阻输入状态，
不影响单片机的 I/O 口正常工作

外部开行总线扩展32K SRAM



USB
转 USB口
P3
GND
VBUS
SIG1
SIG2
D-1
D+1
D-2
D+2
SHELL
USB-Type-C
PCI-USB-5V
R14
5R6/1A
R17
1K
USB2.0 D-
USB2.0 D+
PCI-USB-0V
U2
STC8G2K32U
P1.0/ADC0/Rx2/I2SPWMP/CMP-_2
P1.1/ADC1/TxD2/PWMBI/CMP-_3
P5.2/ADC18/PWMNB/CTCLKO/CMPO_2
CMPO
P5.3/ADC19/PWMNA/CTDIR/CMPO
P5.4/ADC20/T1CLKO/SSI/PWMDPPWMB_2/ADC2/T2/ADC_EXTI
VCC/ADC_Area
ADC_VrefA
Gnd
P1.2/ADC2/PWMFLT/SDA/T2CLKO/CMPO_2
P1.3/ADC3/PWMBI/SCL/T2/CMPO
P3.2/ADC10/T0/ADC_EXTI
P3.3/ADC11/T1/ADC_EXTI
P3.4/ADC12/T2/ADC_EXTI
P3.5/ADC13/T3/ADC_EXTI
P3.6/ADC14/T4/ADC_EXTI
P3.7/ADC15/INT4/ADC_EXTI
P4.0/ADC16/RxD_2/MISO/INT1/ADC_EXTI
P4.1/ADC17/TxD_2/MOSI/INT2/ADC_EXTI
P4.2/ADC18/SS/PWMDPPWMB_2/ADC2/T2/ADC_EXTI
P4.3/ADC19/SCLK/PWMNB/CTCLKO/ADC_EXTI
P4.4/ADC20/T1CLKO/PWMNA/CTDIR/ADC_EXTI
P4.5/ADC21/T2CLKO/PWMBI/SCL/T2/ADC_EXTI
P4.6/ADC22/T3CLKO/PWMFLT/SDA/ADC_EXTI
P4.7/ADC23/T4CLKO/PWMCI/ADC_EXTI
P5.0/ADC24/RxD2/I2SPWMP/CMP+_2
P5.1/ADC25/TxD2/I2SPWMN/CMP+_3
P5.2/ADC26/PWMNB/CTCLKO/CMPO_2
P5.3/ADC27/PWMNA/CTDIR/CMPO
P5.4/ADC28/T1CLKO/SSI/PWMDPPWMB_2/ADC2/T2/ADC_EXTI
P5.5/ADC29/T2CLKO/PWMBI/SCL/T2/ADC_EXTI
P5.6/ADC30/T3CLKO/PWMFLT/SDA/ADC_EXTI
P5.7/ADC31/T4CLKO/PWMCI/ADC_EXTI
P6.0/ADC32/RxD3/I2SPWMP/CMP+_2/ADC2/T2/ADC_EXTI
P6.1/ADC33/TxD3/I2SPWMN/CMP+_3/ADC2/T2/ADC_EXTI
P6.2/ADC34/PWMNB/CTCLKO/CMPO_2/ADC2/T2/ADC_EXTI
P6.3/ADC35/PWMNA/CTDIR/CMPO/ADC2/T2/ADC_EXTI
P6.4/ADC36/T1CLKO/SSI/PWMDPPWMB_2/ADC2/T2/ADC_EXTI
P6.5/ADC37/T2CLKO/PWMBI/SCL/T2/ADC_EXTI
P6.6/ADC38/T3CLKO/PWMFLT/SDA/ADC_EXTI
P6.7/ADC39/T4CLKO/PWMCI/ADC_EXTI
VCC/ADC_Area
ADC_VrefA
Gnd
USB-Type-C
R15
5.1K
R16
5.1K
USB-P/D+
USB-N/D-
D1 IN5817
C14
104
C13
22uF/10V
R18
0R/1A
R19
0R/1A
C12
104
C11
22uF/10V
R20
0R/1A
R21
0R/1A
C10
104
C9
104
R22
0R/1A
R23
0R/1A
C8
104
C7
104
R24
0R/1A
R25
0R/1A
C6
104
C5
104
R26
0R/1A
R27
0R/1A
C15
10uF/10V
P3.2
P3.3
P4.0
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P7.6
P7.7
USB 供电及 USB 自接下载程序(ISP)开关按在电池不供电基础)
USB-Type-C
PCI-USB-5V
D+
D-
R28
0R/1A
R29
0R/1A
R30
0R/1A
R31
0R/1A
CON4-2.54mm
SIC-USB-14420-H-13
P3.0 RxD_D-
P3.1 TxD_D+
从电脑取5V电
PCI-USB-5V
L1276
R32
0R/1A
D6
SM4007PS
Q13
S8050
R33
0R/1A
C17
22uF/10V
C16
104
U3
MR4828CDMG
VIN
GND
VCC
VOUT
SYS-VCC
Q3
AO3401A
MCU.VCC
D7
SS32TDH
IN5817
R178
1K
R179
1K
BAT
3V
S4
按钮电阻
R27
10K
LED8
RL-11SURC
红外发射
P2.7
R9
560R/1A
Q4
S8050
P2.7
P3.7
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