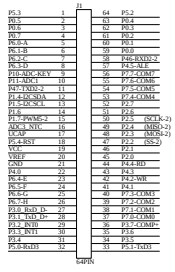
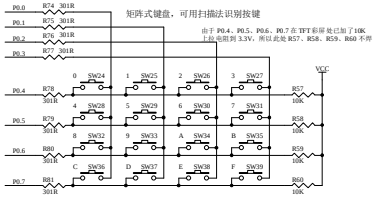
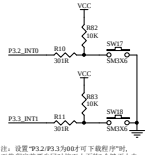


STC大学计划实验箱 8.3 原理图

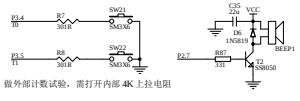
2020-08-11



如果使用单片机片外总线就不要使用上图的P0口行列矩阵按键扫描电路，改用下图的ADC按键检测电路

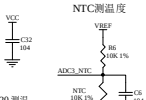


注：设置"P3.2/P3.3为00d"可下载程序"用，
下载程序前要先同时按下上面的2个键再上电

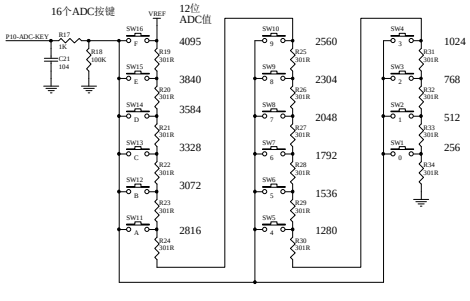


做外部计数试验，需打开内部 4K 上拉电阻

进入时钟停振省电模式后，按下 INT0,INT1 键后均能唤醒
USB与普通串口下载操作步骤不同，需要先将P3.2口接地再给单片机上电。
或停电再上电，再点击电脑端 STC-ISP 下载软件的下载按钮

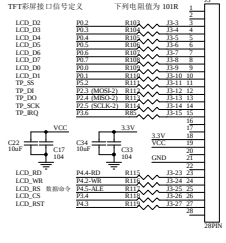


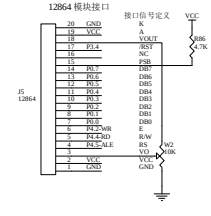
一线制温度传感器 DS18B20 测温

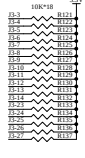


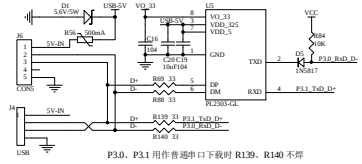
读ADC键方法:

每隔10ms左右读一次ADC值,并且保存最后3次的读数,其变化比较小时再判断键.
判断键有效时,允许一定的偏差,比如正负16个字的偏差.









P3.0、P3.1 用作普通串口下载时 R139、R140 不焊
P3.0、P3.1 作为USB 下载和通讯时 U5、R69、R88、C16、C19、C20、D5、R84 不焊