# 微机原理与接口技术

# 模拟设备并行10接口

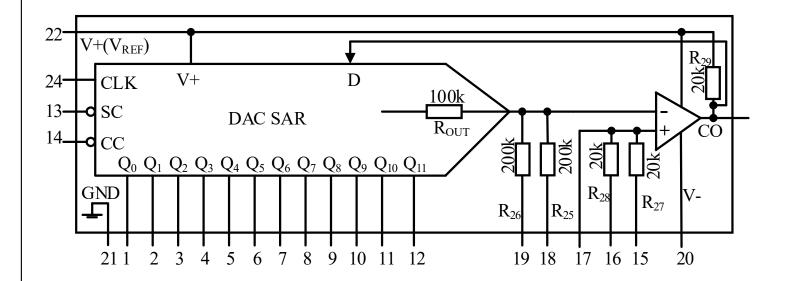
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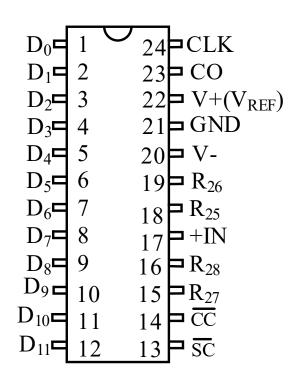


#### 模拟设备

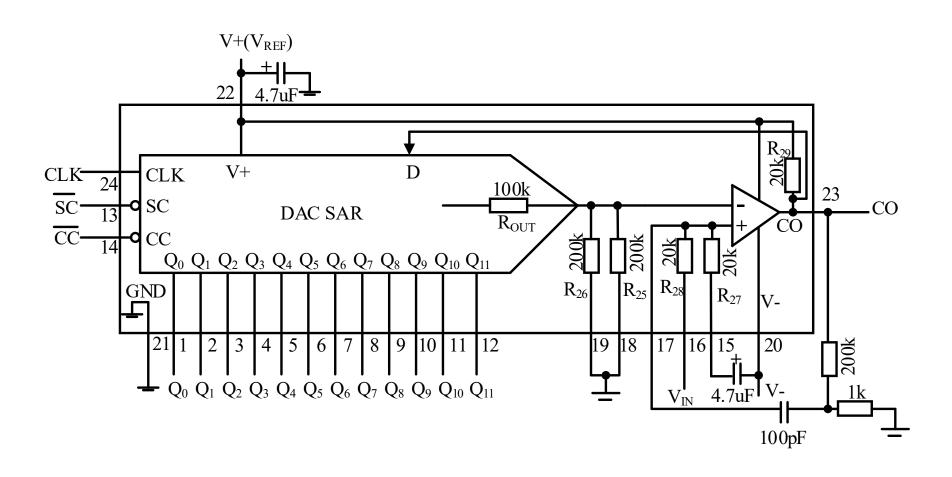
模拟信号接入计算机系统处理必须经过AD转换器

#### **ADC1210**



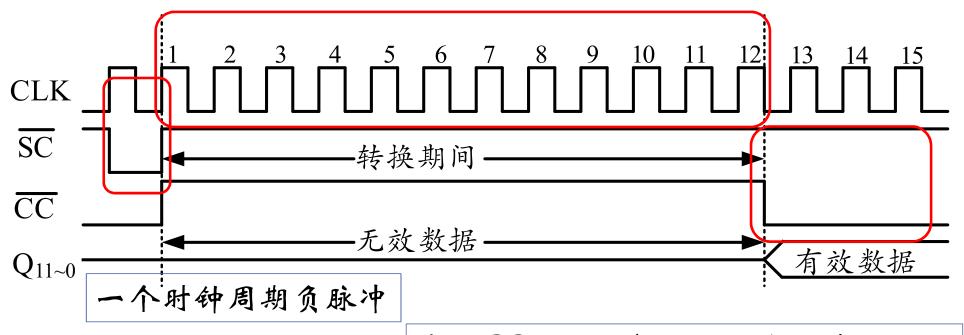


# 正逻辑、单极性正向模拟信号输入



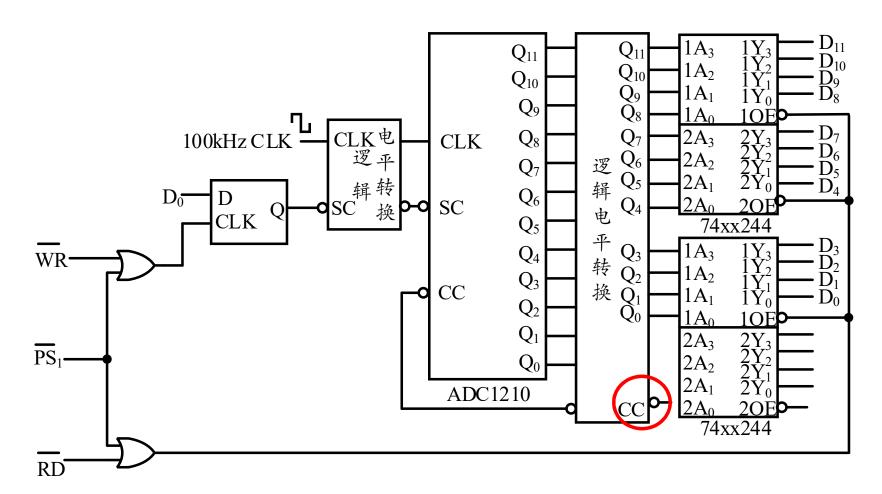
## ADC1210工作时序

延肘等待之后读取转换结果

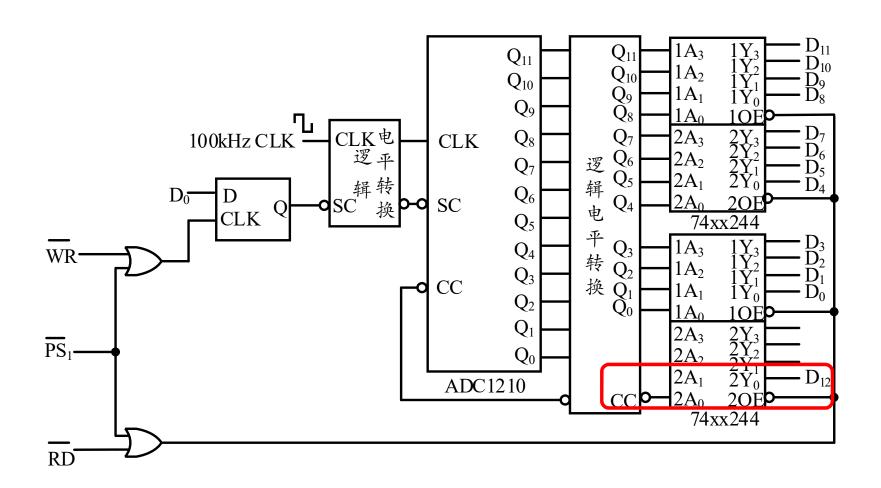


查询CC, 发现变低之后读取转换结果

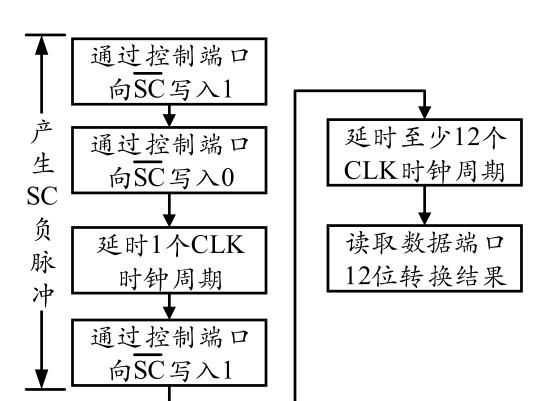
# ADC1210延时接口电路



#### ADC1210查询接口电路

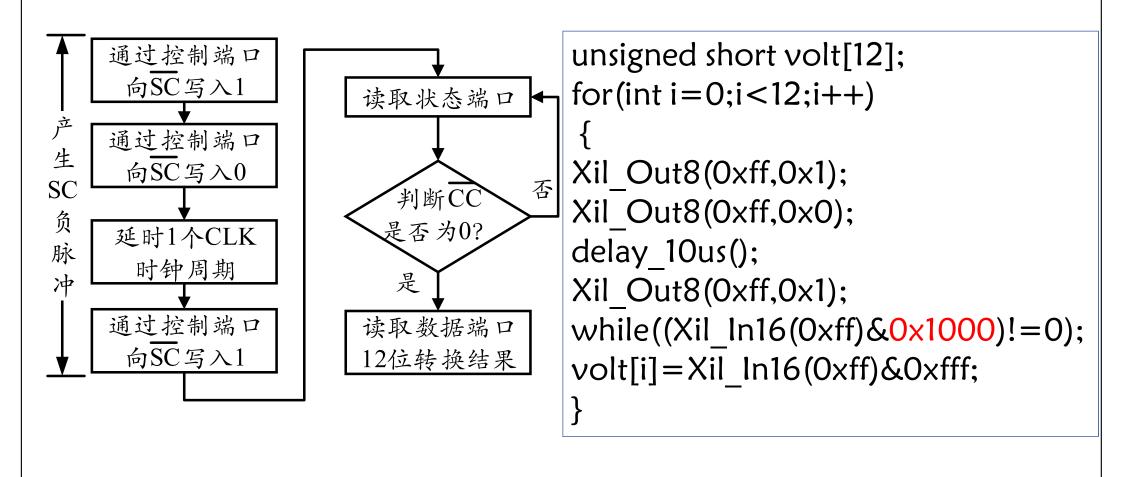


#### 延时程序流程-采集12个数据



```
unsigned short volt[12];
for(int i=0;i<12;i++)//
{
    Xil_Out8(0xff,0x1);//
    Xil_Out8(0xff,0x0);
    delay_10us();//
    Xil_Out8(0xff,0x1);
    delay_12us();//
    volt[i]=Xil_In16(0xff)&0xfff;//}
```

# 查询程序流程-采集12个数据



#### 小结

- •模拟设备并行10接口
  - •控制端口-锁存
  - •状态端口-缓冲
  - •数据端口-缓冲

下一讲:通用并行IO接口