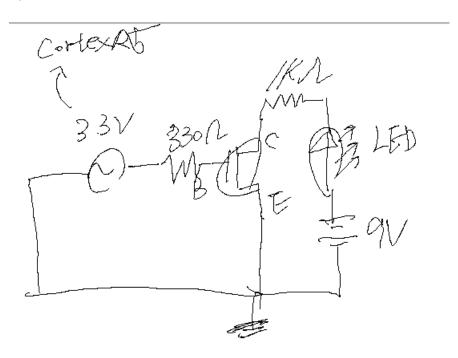
```
Code
#include "HL_sys_common.h"
#include "HL_gio.h"
#include "HL_rti.h"
int main(void)
  gioInit();
   rtiInit();
   gioSetDirection(gioPORTA, 0xffffffff);
   rtiEnableNotification(rtiREG1, rtiNOTIFICATION_COMPARE0);
   gioSetPort(gioPORTA, 0xffffffff);
   _enable_IRQ_interrupt_();
   rtiStartCounter(rtiREG1, rtiCOUNTER_BLOCK0);
  for(;;)
   return 0;
void rtiNotification(rtiBASE_t *rtiREG, uint32 notification)
   gioToggleBit(gioPORTA, 4);
```

Enable RTI driver

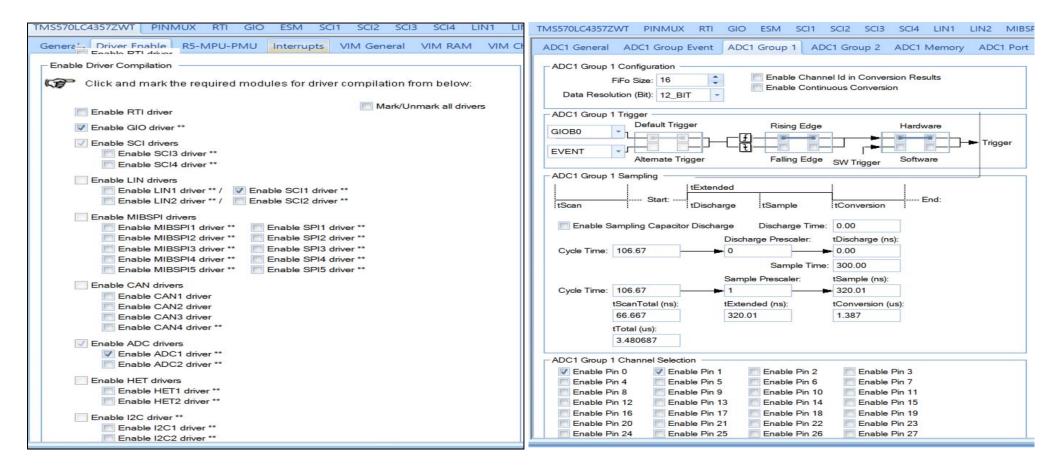
Enable GIO driver **

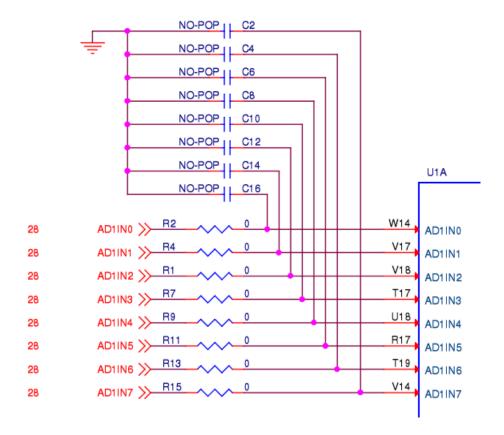


:RTI 1초설정, GIO 로 1초마다 전압공급, 전압원 0.6V이상일 때 마다 컬렉터와 이미터가 CLOSE -> LED 켜짐.

R5 -> ADC 12bit 임.

HCG 설정





녹음 4분 W14에 물림.

```
/* Include Files */
#include "HL sys common.h"
#include "HL_system.h"
#include "HL_sci.h"
#include "HL_esm.h"
#include "HL adc.h"
#include "HL_gio.h"
#define TSIZE1 12a
uint8 TEXT1[TSIZE1]={'\r','\n','|','\t','C','H','.','I','D','-','0','x'};
#define TSIZE2 9
uint8 TEXT2[TSIZE2]={'\t','V','A','L','U','E','=','0','x'};
adcData_t adc_data[2];
void sciDisplayText(sciBASE_t *sci, uint8 *text, uint32 length);
void sciDisplayData(sciBASE_t *sci, uint8 *text, uint32 length);
void wait(uint32 time);
int main(void)
   uint32 ch_count =0;
   uint32 id =0;
   uint32 value = 0;
   gioInit();
   gioSetDirection(gioPORTB, 0xFF);
   sciInit();
```

```
adcInit();
   adcStartConversion(adcREG1, adcGROUP1);
   while(1){
      gioSetBit(gioPORTB, 0, 1);
       while((adcIsConversionComplete(adcREG1, adcGROUP1))==0)
       ch_count = adcGetData(adcREG1, adcGROUP1, &adc_data[0]);
       id = adc data[0].id;
      value = adc_data[0].value;
       gioSetBit(gioPORTB, 0, 0);
       sciDisplayText(sciREG1, &TEXT1[0], TSIZE1);
       sciDisplayData(sciREG1, (uint8 *)&id, 4);
       sciDisplayText(sciREG1, &TEXT2[0], TSIZE2);
       sciDisplayData(sciREG1, (uint8 *)&value, 4);
       if(value < 0x600){
          gioSetBit(gioPORTB, 4, 1);
       else{
          gioSetBit(gioPORTB, 4, 0);
       }
       id = adc_data[1].id;
      value = adc data[1].value;
       59
       sciDisplayText(sciREG1, &TEXT1[0], TSIZE1);
       sciDisplayData(sciREG1, (uint8 *)&id, 4);
       sciDisplayText(sciREG1, &TEXT2[0], TSIZE2);
       sciDisplayData(sciREG1, (uint8 *)&value, 4);
*/
```

```
wait(0xFFFFF);
   }
void sciDisplayText(sciBASE_t *sci, uint8 *text, uint32 length){
   while(length--){
       while((sciREG1->FLR & 0x4) == 4)
       sciSendByte(sciREG1, *text++);
void sciDisplayData(sciBASE_t *sci, uint8 *text, uint32 length){
   uint8 txt =0;
   uint8 txt1 =0;
#if ((__little_endian__ == 1) || (__LITTLE_ENDIAN__ == 1))
   text = text + (length -1);
#endif
   while(length--){
#if ((__little_endian__ == 1) || (__LITTLE_ENDIAN__ == 1))
   txt = *text--;
#else
   txt = *text++;
#endif
   txt1 = txt;
   txt \&= \sim (0xF0);
   txt1 &= \sim(0x0F);
   txt1 = txt1>>4;
   if(txt <= 0x9){
       txt +=0x30;
```

```
else if(txt > 0x9 && txt < 0xF){
       txt +=0x37;
   else{
       txt = 0x30;
   if(txt1 <=0x9){
       txt1 += 0x30;
   else if((txt1 > 0x9) && (txt1 <= 0xF)){</pre>
       txt1 += 0x37;
   else{
       txt1 = 0x30;
   while((sciREG1->FLR & 0x4)==4)
   sciSendByte(sciREG1, txt1);
   while((sciREG1->FLR & 0x4)==4)
   sciSendByte(sciREG1, txt);
void wait(uint32 time){
   int i;
   for(i=0; i<time; i++);</pre>
```

: 홀센서, 광전자센서 CLEAR,

ADC 모든센서 + ,- , Control 입력만 잘 넣어주면 모두 동작하는 듯하다. 편하다.

RTOS 분석

