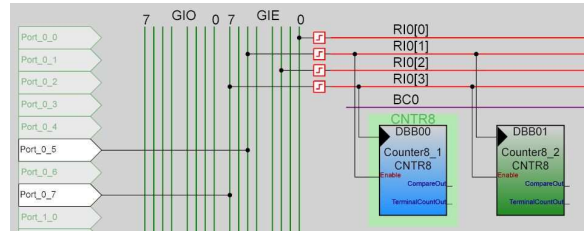
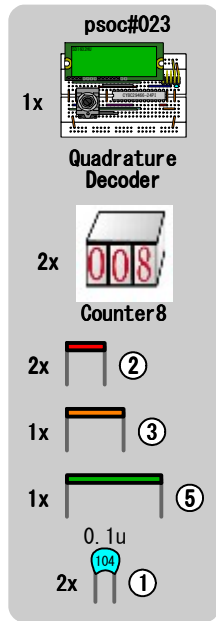




# 15+

## 026

Quadrature Decoder  
by DirectCount



Pin	Port	Mode	Config
P0[0]	Port_0_0	StdCPU	High Z Analog, DisableInt
P0[1]	Port_0_1	StdCPU	Pull Up, DisableInt
P0[2]	Port_0_2	StdCPU	High Z Analog, DisableInt
P0[3]	Port_0_3	StdCPU	Pull Up, DisableInt
P0[4]	Port_0_4	StdCPU	High Z Analog, DisableInt
P0[5]	Port_0_5	GlobalInEven_5	High Z, DisableInt
P0[6]	Port_0_6	StdCPU	High Z Analog, DisableInt
P0[7]	Port_0_7	GlobalInEven_7	High Z, DisableInt

```

main.c
#define RA 0x08 // RA = P0[3]
#define RB 0x02 // RB = P0[1]

void main()
{
    PRT0DR = RA | RB; // RA,RB PullUp
    LCD_1_Start();
    Counter8_1_Start();
    Counter8_2_Start();

    LCD_1_PrCString("*** PSoC026 ***");
    while(1) {
        LCD_1_Position(1,0);
        LCD_1_PrHexByte
            (Counter8_2_bReadCounter()-
            Counter8_1_bReadCounter());
    }
}

```

Name	Counter8_1
User Module	Counter8
Version	2.5
Clock	Row_0_Input_3
ClockSync	Sync to SysClk
Enable	Row_0_Input_1
CompareOut	None
TerminalCountOut	None
Period	255
CompareValue	127
CompareType	Less Than Or Equal
InterruptType	Terminal Count
InvertEnable	Normal

Name	Counter8_2
User Module	Counter8
Version	2.5
Clock	Row_0_Input_1
ClockSync	Sync to SysClk
Enable	Row_0_Input_3
CompareOut	None
TerminalCountOut	None
Period	255
CompareValue	127
CompareType	Less Than Or Equal
InterruptType	Terminal Count
InvertEnable	Normal

