

Xilinx

Zynq FPGA

TI DSP MCU 기반의
프로그래밍 및 회로 설계 전문가

강사 이상훈

gcccompil3r@gmail.com



학생 김민호

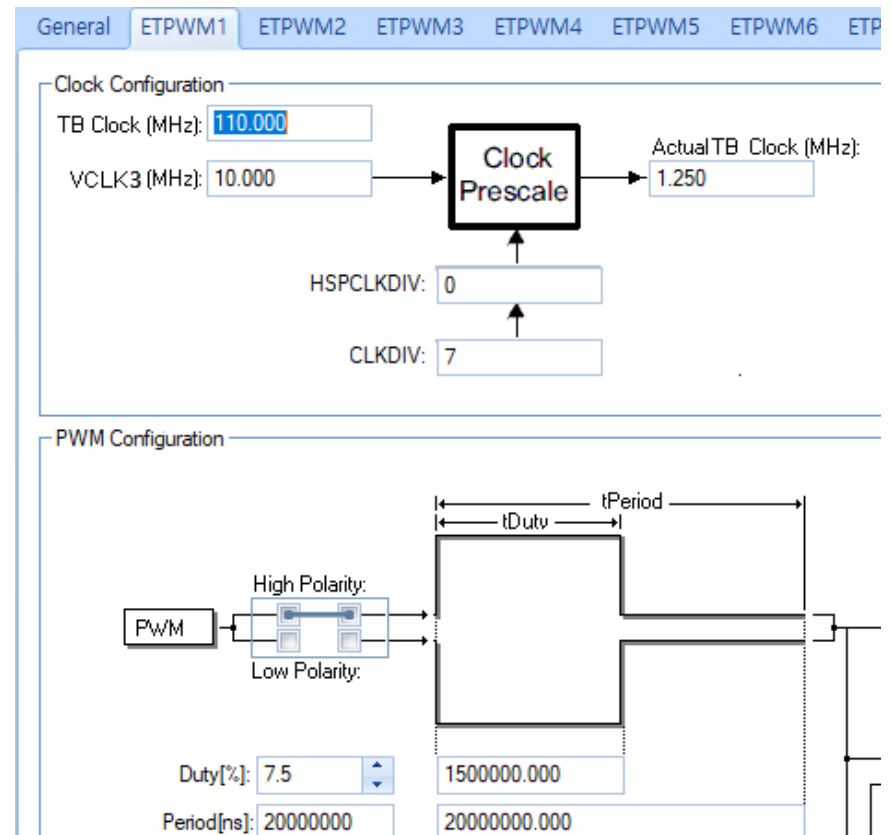
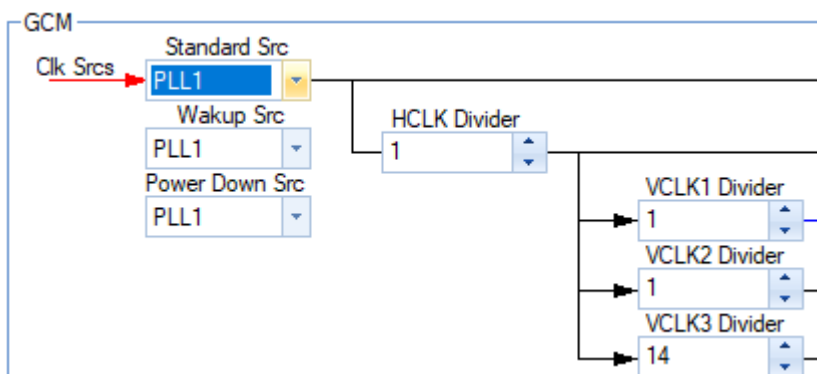
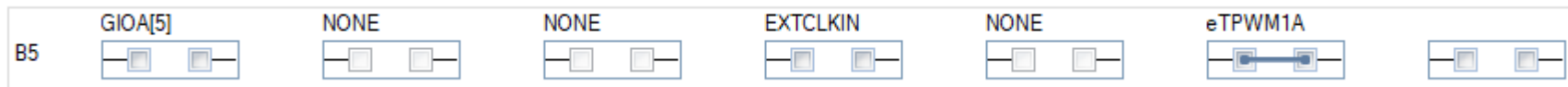
minking12@naver.com



- ☒ Enable CAN drivers
 - ☒ Enable CAN1 driver
 - ☐ Enable CAN2 driver

- ☒ Enable ETPWM driver

MCU_Motor1(main)-Manual Setting



MCU_Motor1(main)-Manual Code

```
#include <HL_etpwm.h>
#include <HL_hal_stdtypes.h>
#include "HL_can.h"
#include <stdio.h>
#include <stdlib.h>
#include <math.h>

int main(void)
{
    uint8 rx_data[32] = { 0, };
    uint8 tx_data[8] = { 1, 1, 1, 1, 1, 1, 1, 1 };
    int data = 0;
    etpwmInit();
    canInit();
    etpwmStartTBCLK();
    canEnableErrorNotification(canREG1);

    while (1)
    {
        while (!canIsRxMessageArrived(canREG1, canMESSAGE_BOX2))
            ;
        canGetData(canREG1, canMESSAGE_BOX2, (const uint8*) &rx_data[0]);

        switch (rx_data[0])
        {
            case 12: // main motor
                data = (rx_data[1] - 48) * 1000 + (rx_data[2] - 48) * 100 + (rx_data[3] - 48) * 10 + (rx_data[4] - 48);
                data *= 1.25;
                etpwmREG1->CMPB = data;
                break;
        }
        memset(rx_data, 0, sizeof(rx_data));
        data = 0;
    }
    return 0;
}
```

MCU_Motor1(main)-Manual Pic

