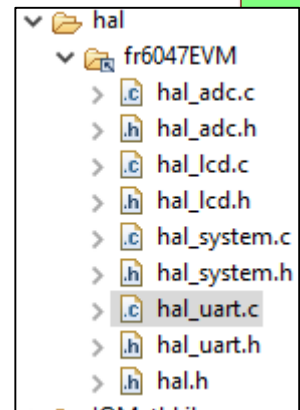
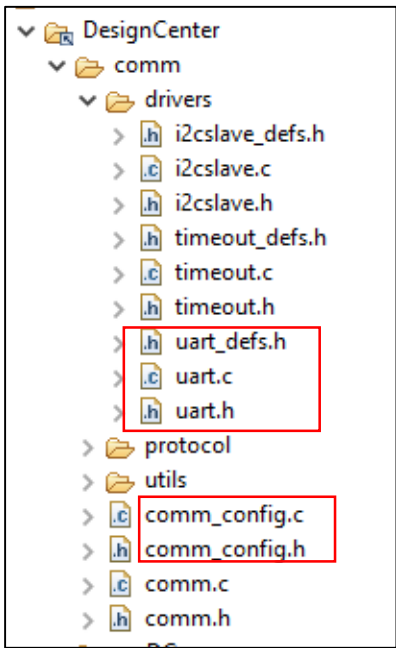


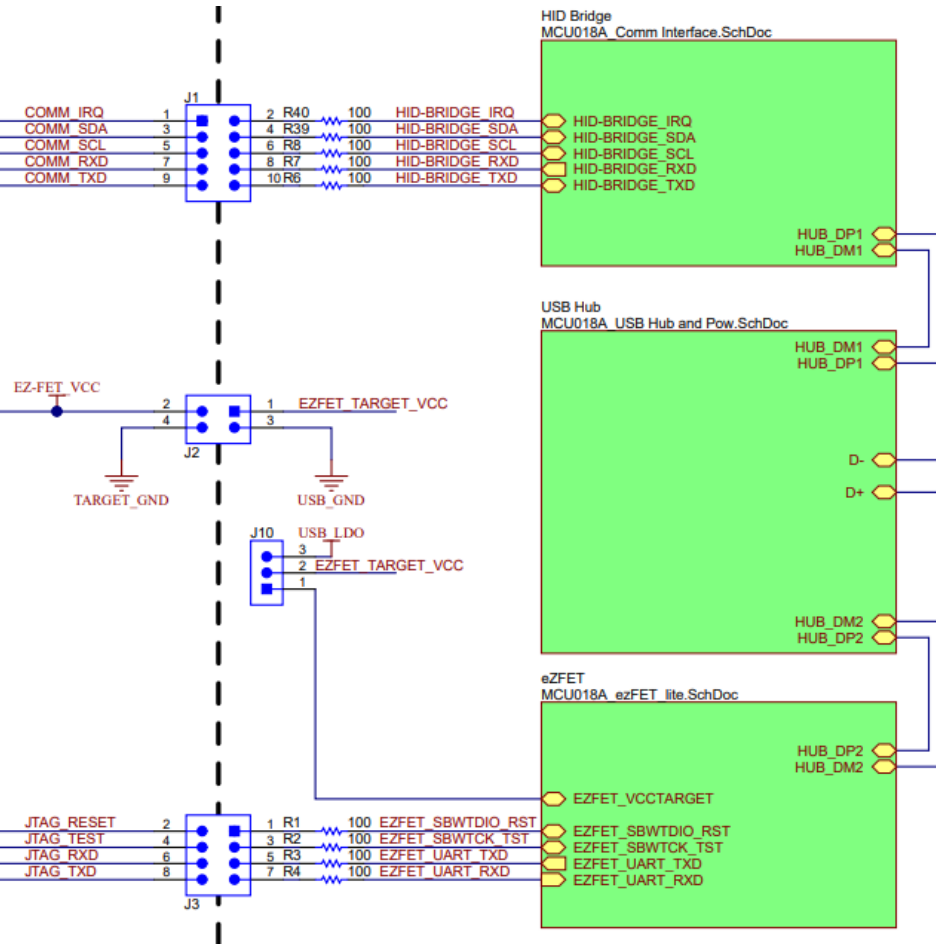
EVM430-FR6047

Communications

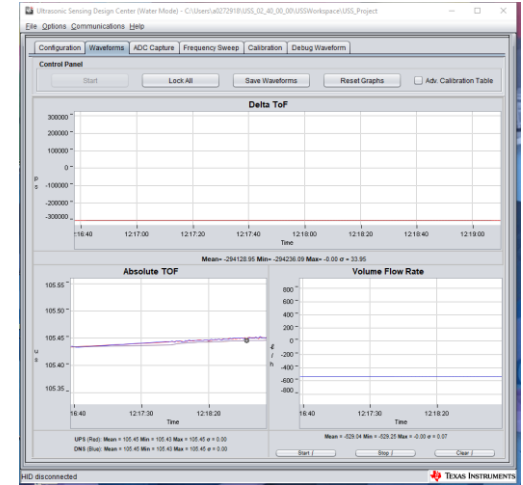


EUSCI_A0 or EUSCI_B0 Send/Receive from MSP430 to GUI

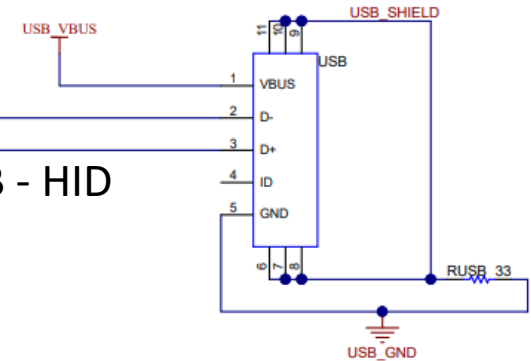
Use EUSCI_A1 to Send/Receive from MSP430 to PC or jumper in a HOST MCU



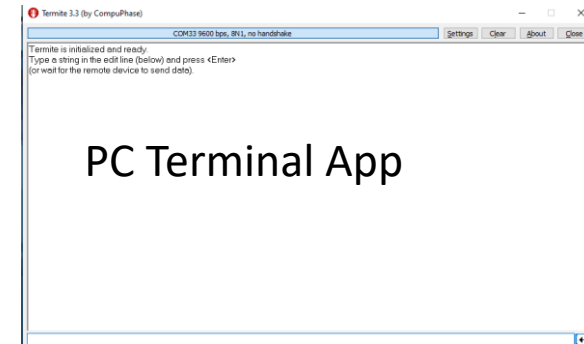
USS GUI



USB - HID



PC Terminal App



How to use EUSCI_A1 as backchannel UART

- HAL_UART.C
- Configure EUSCI_A1 parameters
 - Adjust clocks and set baud rates
- Initialize EUSCI_A1
 - Call `hal_uart_Init()`
- To send a byte
 - Call `hal_uart_TxByte()`

```
1
2 #if ((HAL_SYS_SMCLK_FREQ_HZ == 8000000) && (HAL_UART_BAUDRATE == 57600))
3     param.selectClockSource = EUSCI_A_UART_CLOCKSOURCE_SMCLK;
4     param.clockPrescalar = 8;           // 8000000/16/57600 = 8.68
5     param.firstModReg = 10;            // UCOS16=1, BRFX = 10, BR5x = 0xF7
6     param.secondModReg = 0xF7;
7     param.overSampling = EUSCI_A_UART_OVERSAMPLING_BAUDRATE_GENERATION;
8 #elif ((HAL_SYS_SMCLK_FREQ_HZ == 8000000) && (HAL_UART_BAUDRATE == 115200))
9     param.selectClockSource = EUSCI_A_UART_CLOCKSOURCE_SMCLK;
10    param.clockPrescalar = 4;           // 8000000/16/115200 = 4.34
11    param.firstModReg = 5;              // UCOS16=1, BRFX = 5, BR5x = 0x55
12    param.secondModReg = 0x55;
13    param.overSampling = EUSCI_A_UART_OVERSAMPLING_BAUDRATE_GENERATION;
14 #elif ((HAL_UART_BAUDRATE == 9600) && (HAL_SYS_ACLK_FREQ_HZ == 32768))
15     param.selectClockSource = EUSCI_A_UART_CLOCKSOURCE_ACLK;
16     param.clockPrescalar = 3;           // 32768/9600 = 3.41
17     param.firstModReg = 0;              // UCOS16=0 BRFX = 0, BR5x = 0x92
18 <
```