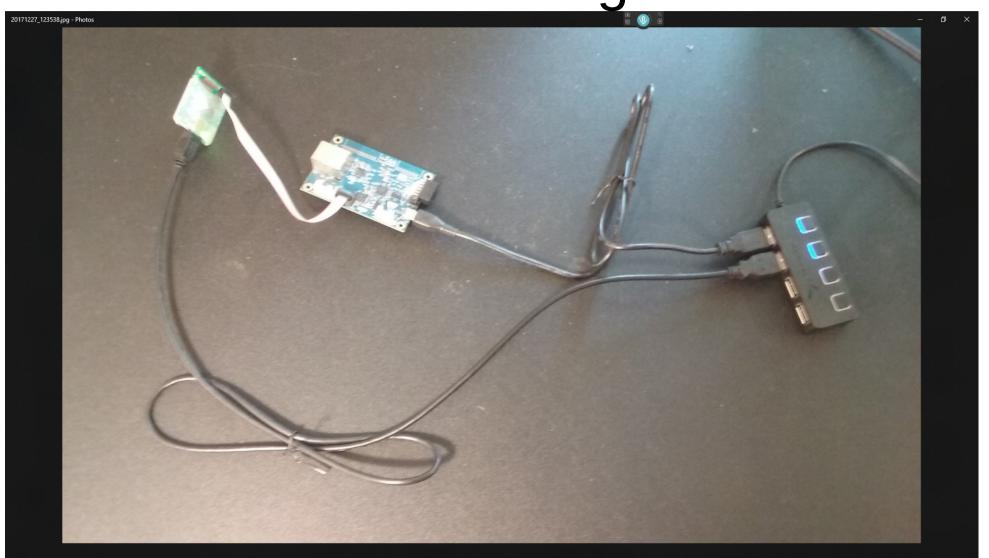
# S5D9 Bus USBX sprintf float Example by Michael Li (1/1/2018) https://www.miketechuniverse.com

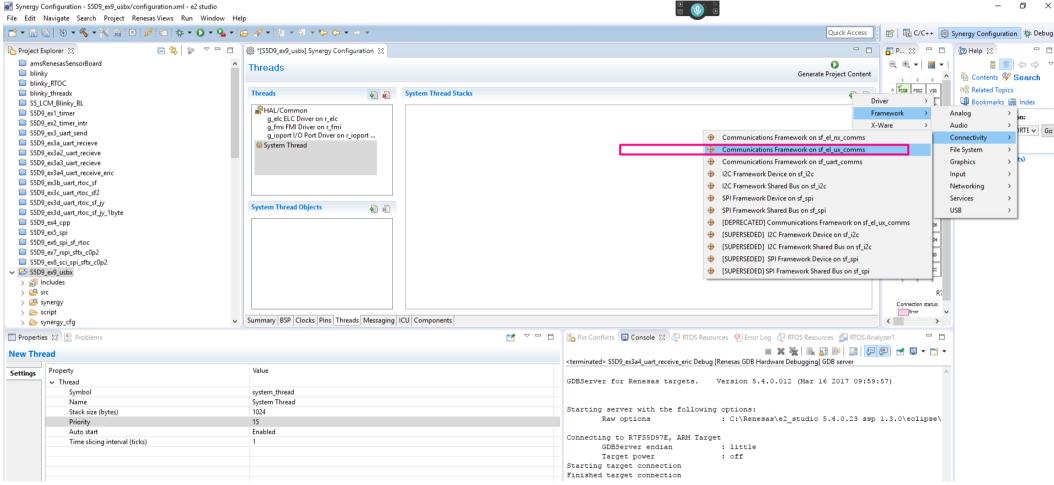
 This example shows how to set up for floating number support in the sprintf function.

> E2 Studio 5.4.0.023 SSP 1.3.0

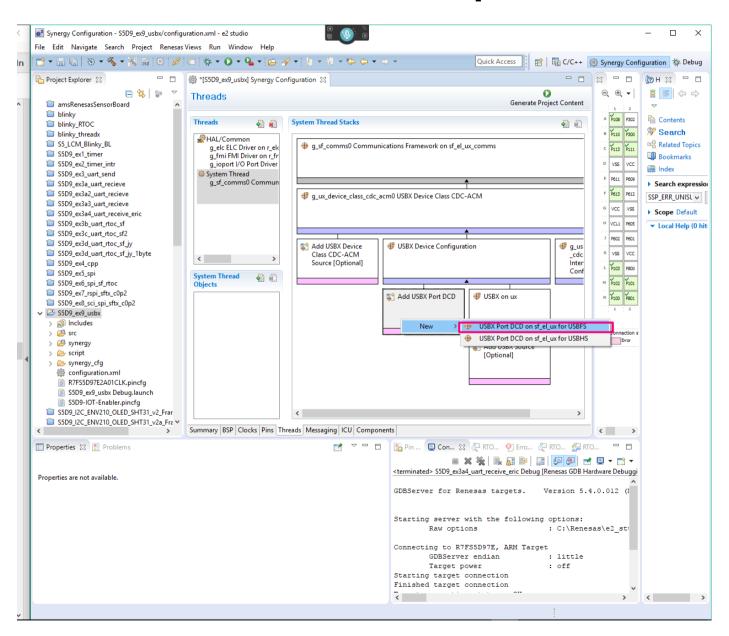
## Hardware Setup with S5D9 board and Jlink debug board.



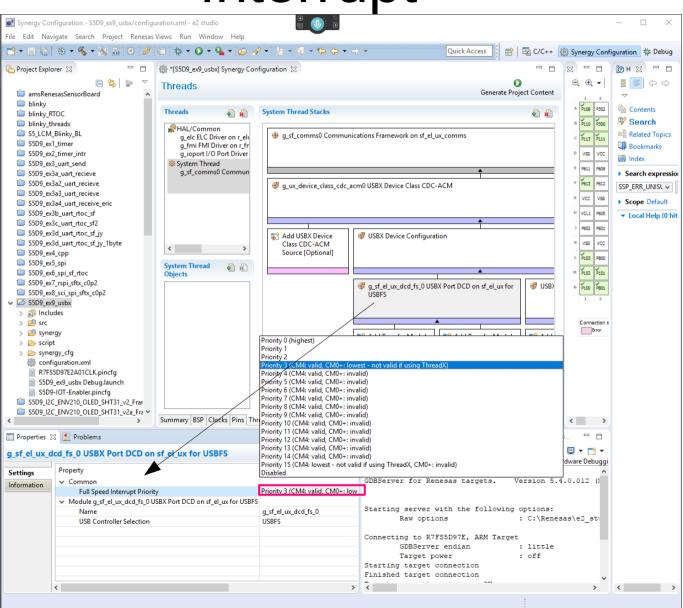
## Must create a new thread to use the USBX communication <u>framework</u>.



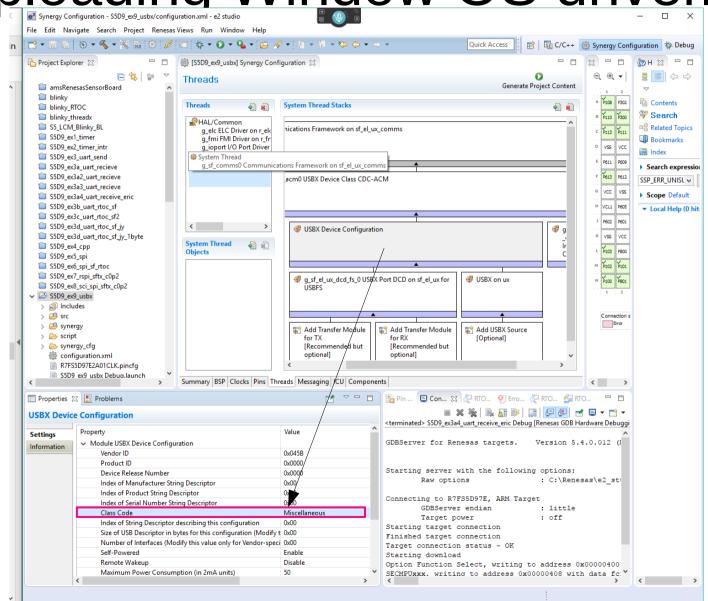
#### Choose the port



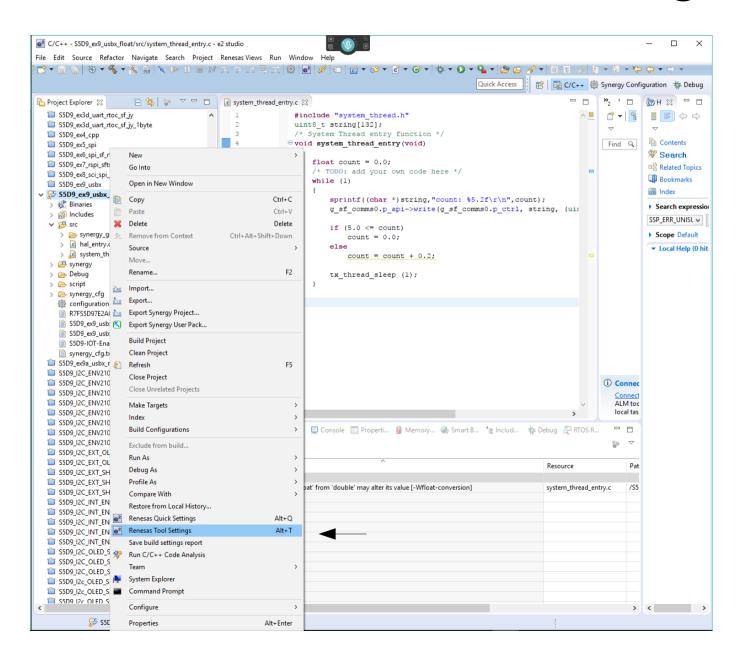
## Property: Disable → Priority 3 Interrupt



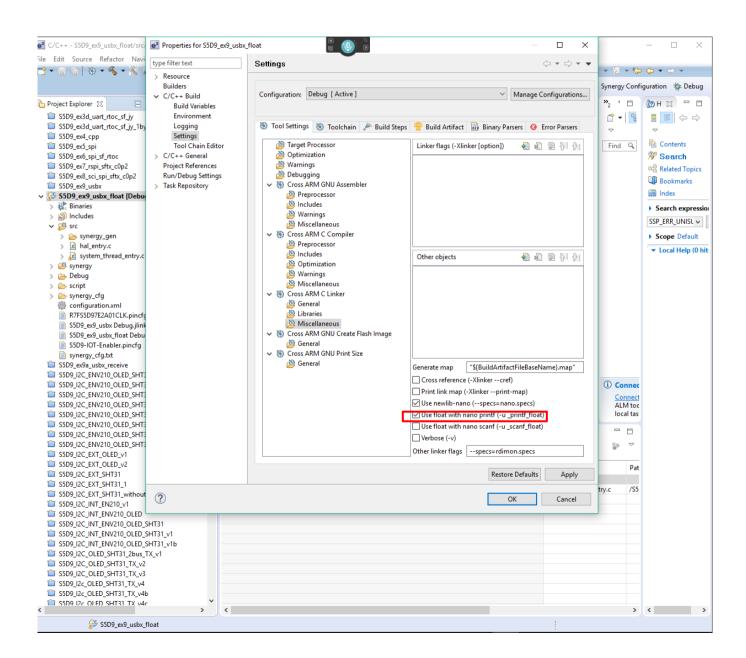
Update the Class Code for uploading Window OS driver.



#### Choose Renesas Tool Settings



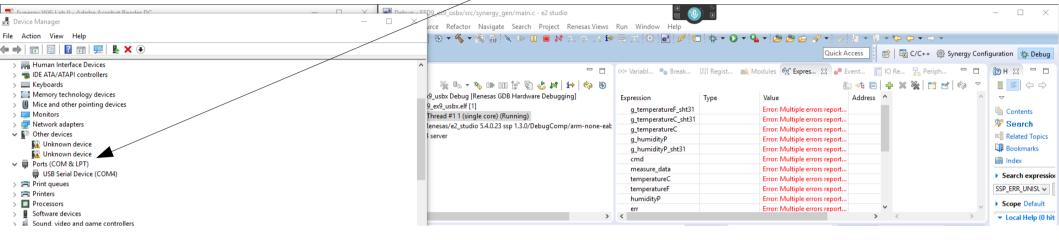
#### Check the box for float printf support



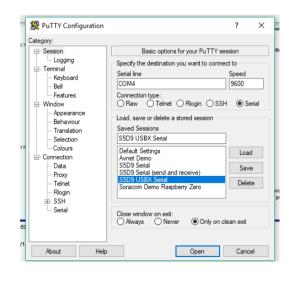
#### System Thread's forever loop.

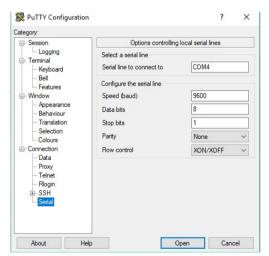
```
main.c stdio.h c_skip_vfp_restore(...
                                           c system thread ent...
148
          Company: Consultant
454
         Date: 12/28/17
         SSP version: 1.30
470
         E2 Studio version: 5.4.0.023
488
         Description: Use USB bus to serially communicate to the host (PC) in bidirectional mode.
49c
                      Increment a float type counter and display its value on the PC's TERM.
4b4
          Requirement: Run the firmware in order for the USBX driver to be loaded into the window.
                      When loaded, you can use Window Device Manager to get the COM port assignment.
456
                      Use that assignment to set up your TERM software.
46a
         Configuration: 9600 baud, No parity, float sprintf.
       include "system thread.h"
       int8_t string[132];
        * System Thread entry function */
      oid system thread entry(void)
         float count = 0.0;
         /* main loop */
         while (1)
              sprintf((char *)string, "count: %5.2f\r\n",count);
             g sf comms0.p api->write(g sf comms0.p ctrl, string, (uint32 t)strlen((char *)string), TX WAIT FOREVER);
             if (5.0 <= count)
                 count = 0.0;
                 count = count + 0.2;
              tx thread sleep (1);
```

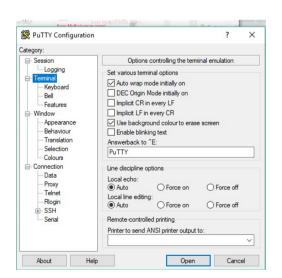
## Run the firmware before you can see COM4



#### Serial port Setting







### Run Serial Term Putty