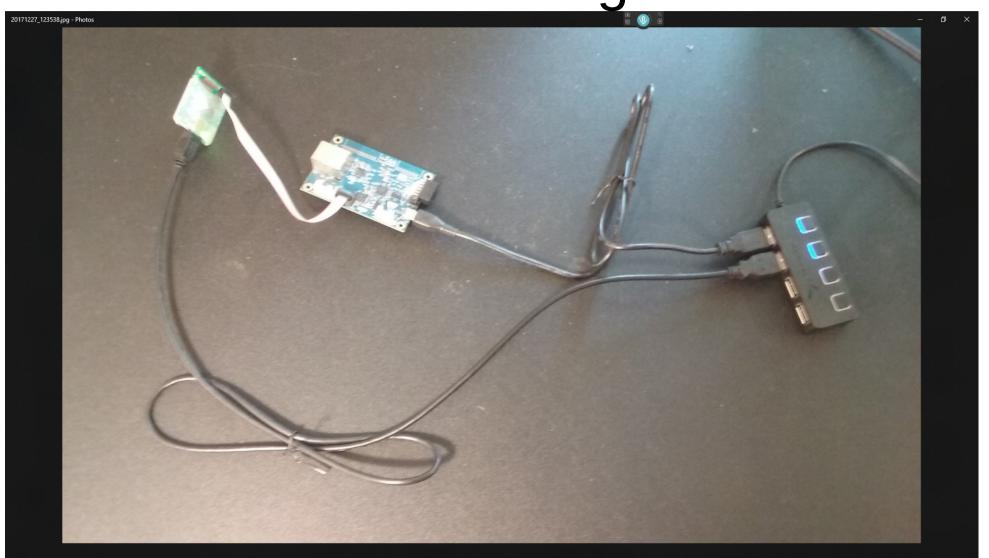
# S5D9 Bus USBX Example by Michael Li (1/1/2018) https://www.miketechuniverse.com

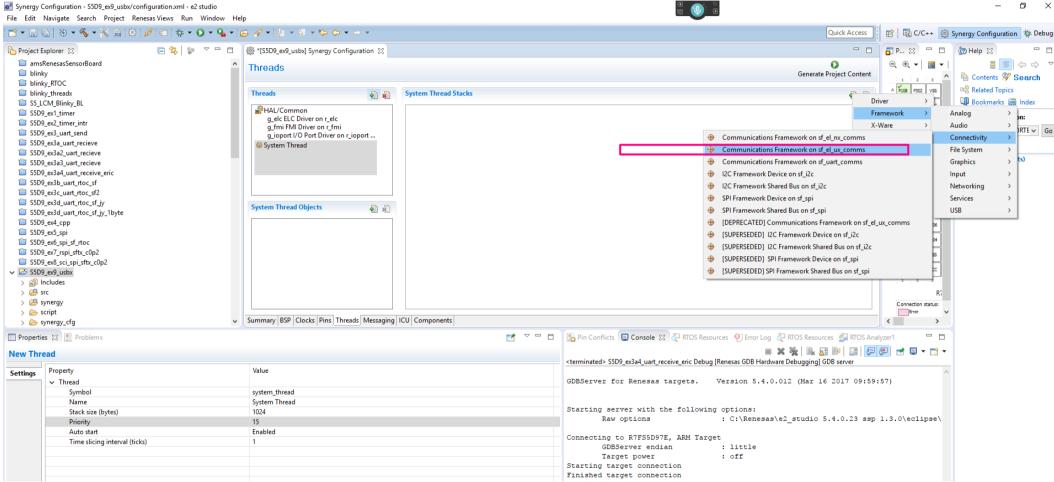
 This example shows how to send an outgoing message and receive an incoming message through the PC's USB bus.

> E2 Studio 5.4.0.023 SSP 1.3.0

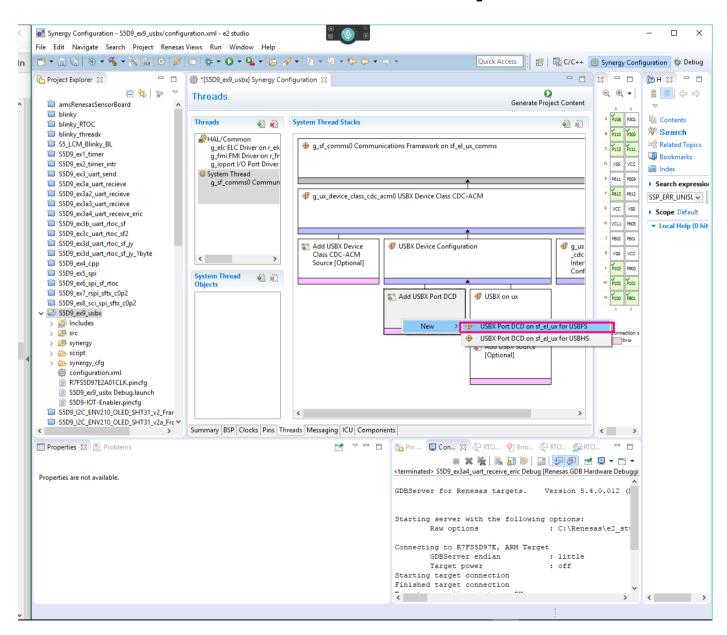
# Hardware Setup with S5D9 board and Jlink debug board.



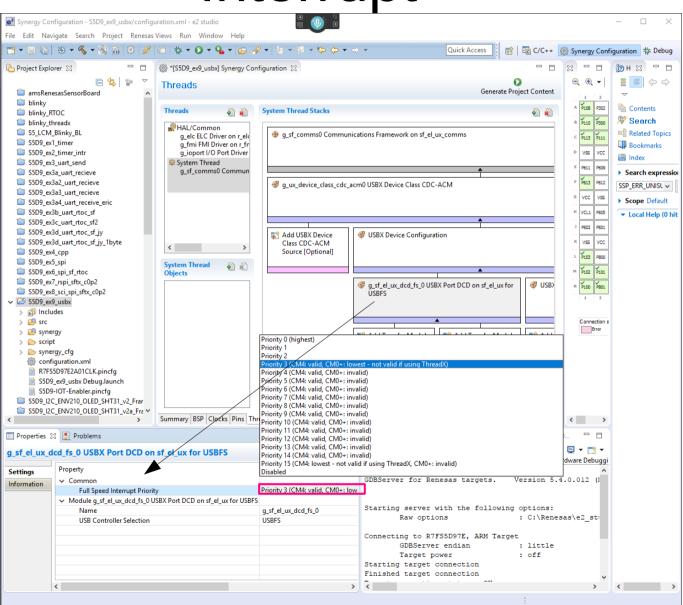
## Must create a new thread to use the USBX communication <u>framework</u>.



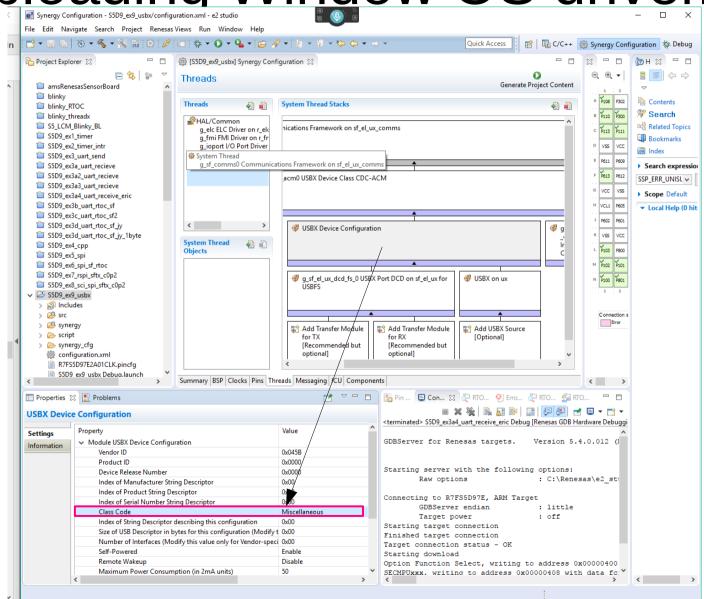
#### Choose the port



## Property: Disable → Priority 3 Interrupt



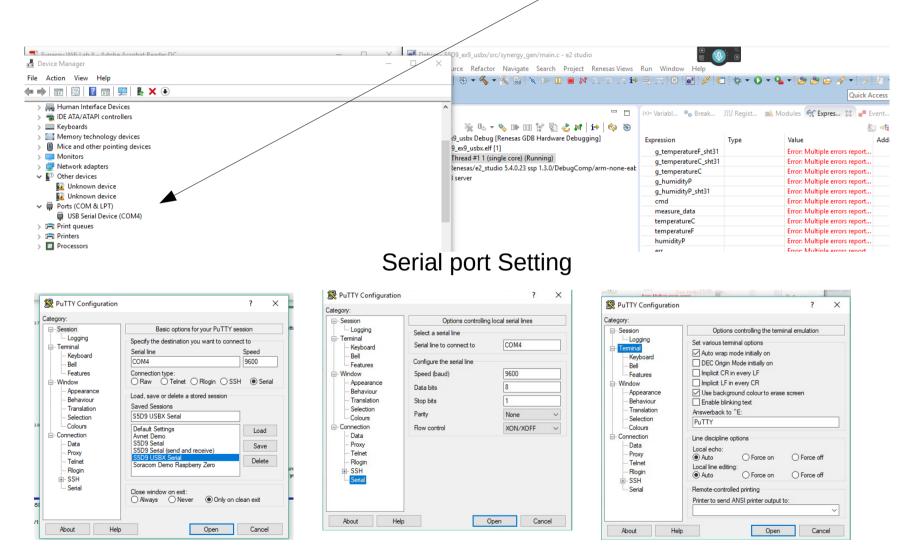
Update the Class Code for uploading Window OS driver.



### System Thread's forever loop.

```
(SSD9 BUS LESSON4 USBX] Syner... C system thread entry.c 💢 📆 stdio.h
                                                                   .c startup S5D9.c .c main.c
 /* Interaction with the user via USB */
sprintf(msg string, "Type %d character(s), they will be echoed back. Press <return> when done.\r\n", RECEIVE STRING LENGTH)
  eol flag = true;
      /* send a message */
          ReturnVal = g_sf_comms0.p_api->write(g_sf_comms0.p_ctrl, (unsigned char *)msg_string, strlen(msg_string), TX_WAII_F
          if (SSP SUCCESS != ReturnVal)
              g ioport.p api->pinWrite(leds.p leds[1], IOPORT LEVEL HIGH);
          eol_flag = false; // force the loop to keep reading until an end-of-line character is reached.
      /* read some characters */
      memset(input string, 0, sizeof(input string)); // clear buffer
      /* read buffer one character at a time */
      ReturnVal = g_sf_comms0.p_api->read(g_sf_comms0.p_ctrl, (unsigned char *)input_string, RECEIVE_STRING_LENGTH, TX WAI F
          g ioport.p api->pinWrite(leds.p leds[1], IOPORT LEVEL HIGH);
      /* Append carriage return and new line to buffer */
      if (CR CHARACTER == input string[0]) {
          sprintf(input string + RECEIVE STRING LENGTH, "\r\n"); // append to the end of the location designated by input st
                                                                 // + RECEIVE STRING LENGTH
          eol flag = true;
      /* echo back the received character back to the host */
      ReturnVal = g_sf_comms0.p_api->write(g_sf_comms0.p_ctrl, (unsigned char *)input_string, strlen(input_string), TX_WAI_F
      if (SSP SUCCESS != ReturnVal)
          while(1);
      tx_thread_sleep (10);
```

## Run the firmware before you can see COM4



### Run Serial Term Putty

