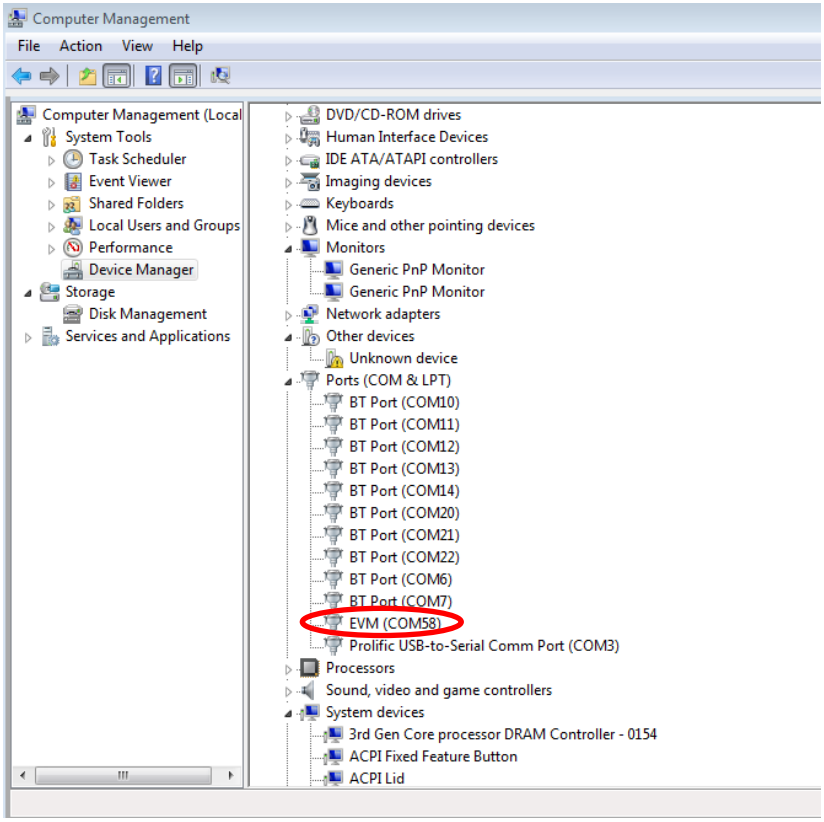
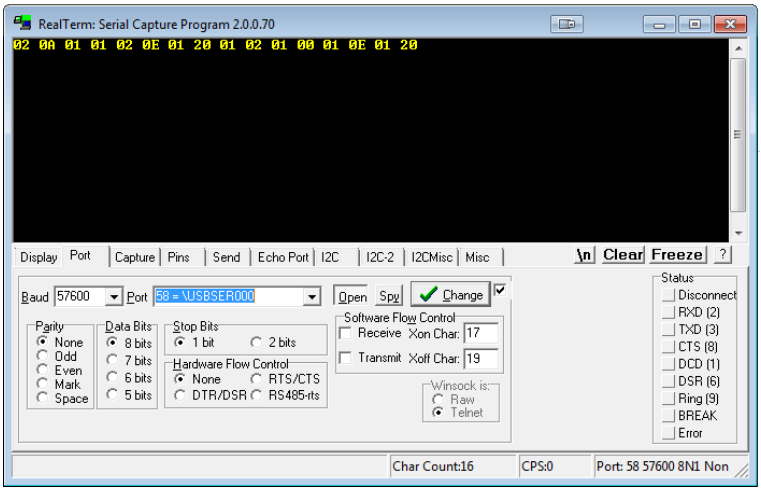
These instructions assume access to the freeware software RealTerm is available. RealTerm is a free software and can be downloaded from here (remember to run the setup as an administrator). In addition the Sensing Solutions EVM GUI will needed to be installed on the machine (the USB drivers for the EVM are included in the GUI).

1) Figure out what is the serial port for the EVM → Go to Computer → Device Manager → COM Ports

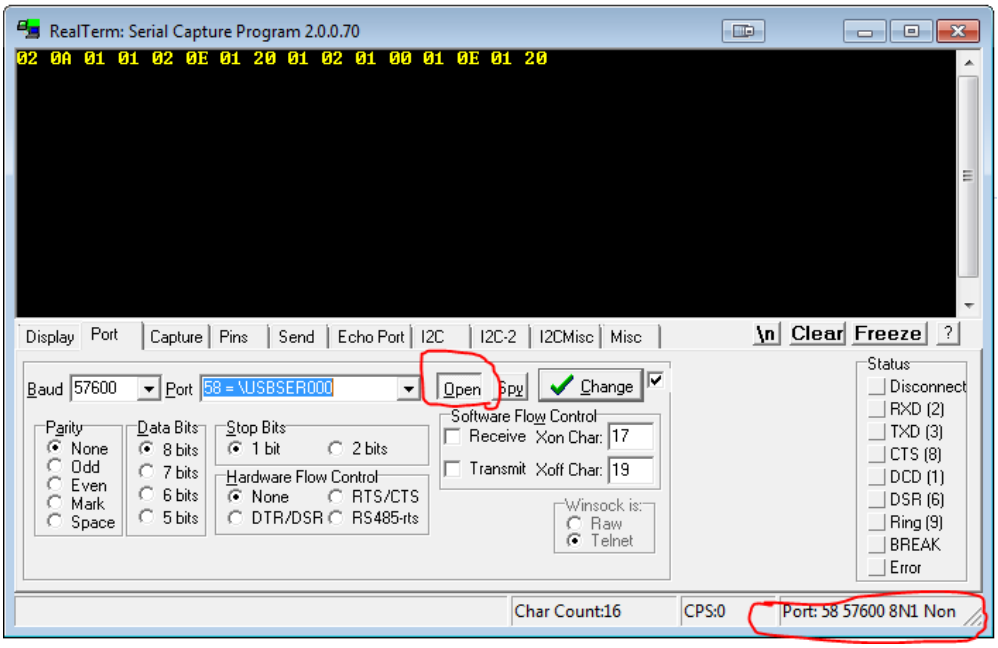


The COM port with the name “EVM” is the demo USB connection.

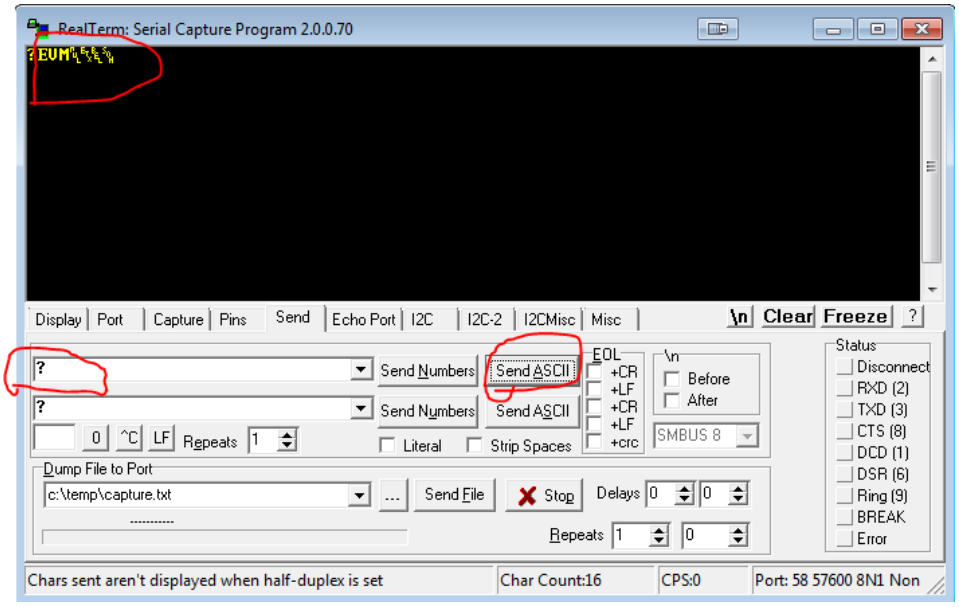
2) Open RealTerm, go to the tab named Port, and chose the correct port number from Step 1 in the drop down menu



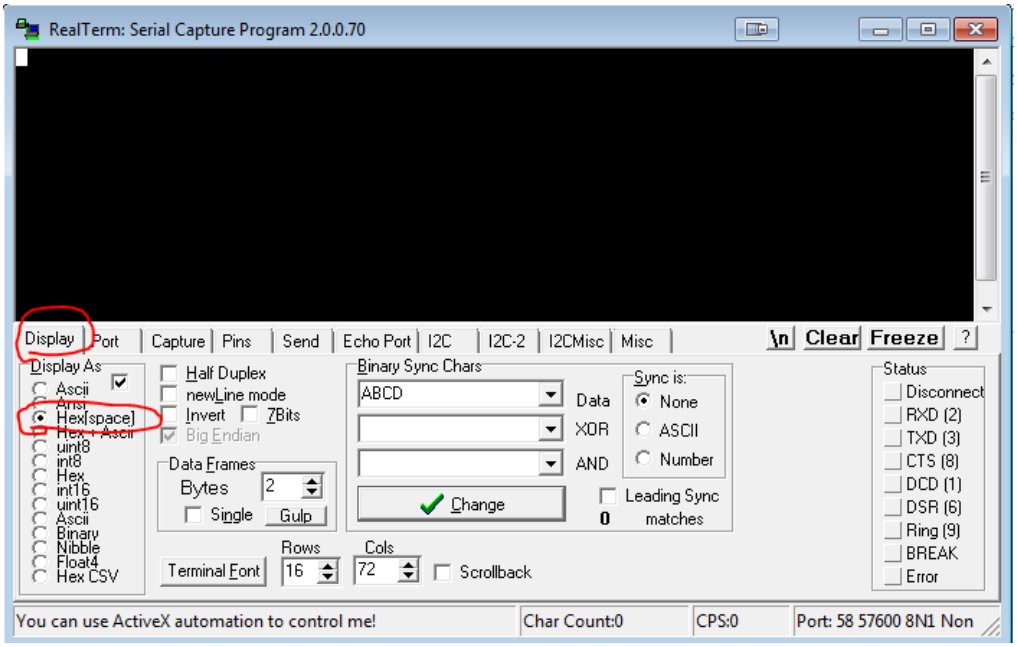
3) Verify the following two changes in your RealTerm window:



4) Now go to tab named Send and send an ASCII character**?**
You will see the EEVM respond by sending the characters “EVM” back, this verifies you can talk to EVM.

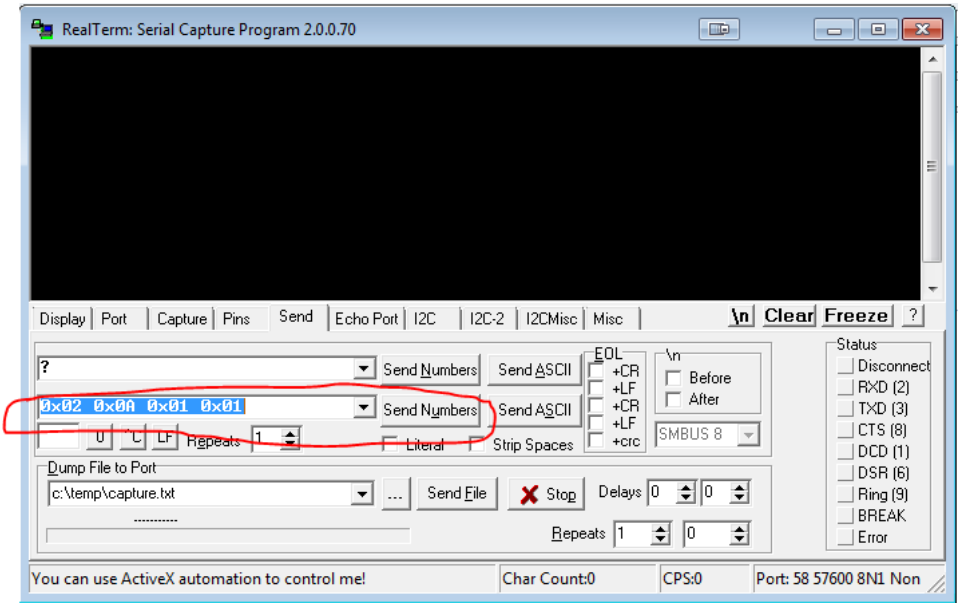


5) Now go to the tab Display and choose Hex [space] for Display as value:



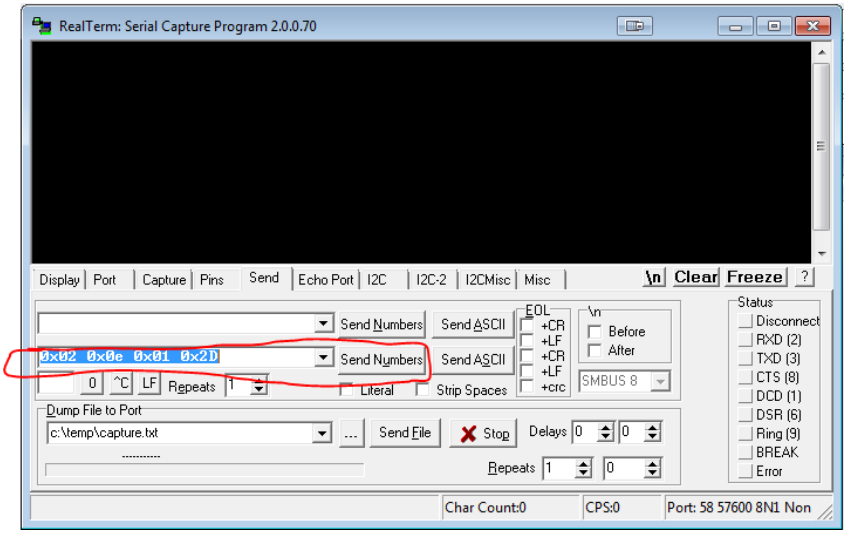
6) Now let's switch back to the send tab

The gain settings for the channels 0-3 are set in register addresses 0x0E, 0x10, 0x12, and 0x20. To initiate a write command, send 0x02 0x0A 0x01 0x01 as numbers:

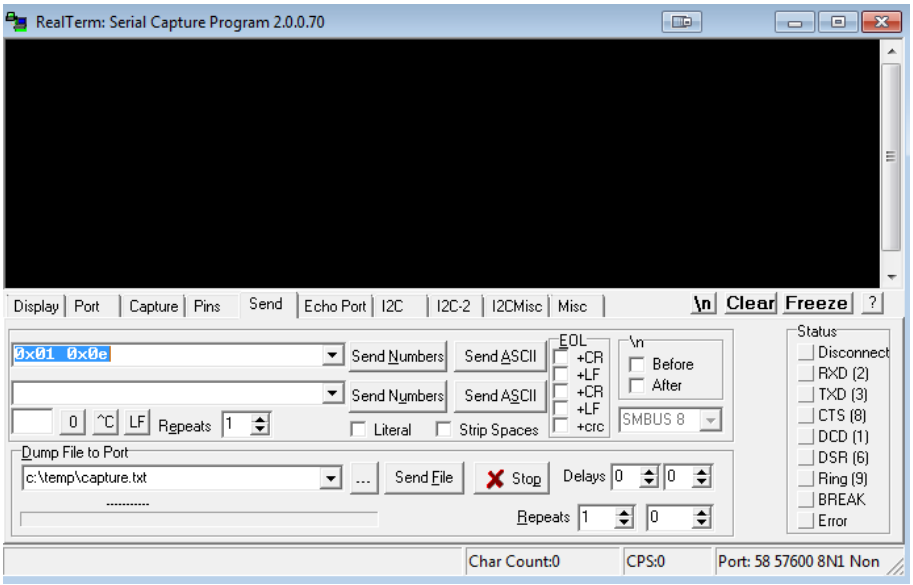


To set the Gain value send the following 0x02 [Register Address] [Register length in bytes] [Register value] *all the value should be in hex.*

For example to set the gain on channel 0 to 45 decimal, send out 0x02 0x0E 0x01 0x2D as numbers



7) You can read back a register by sending 0x01 [register address] as numbers:



8) Terminate the write session by sending 0x02 0x0A 0x01 0x00 as numbers. The changes will only be registered after the write session is terminated.

Please remember all the changes made will be lost once the demo is power cycled and the process will have to be repeated again.