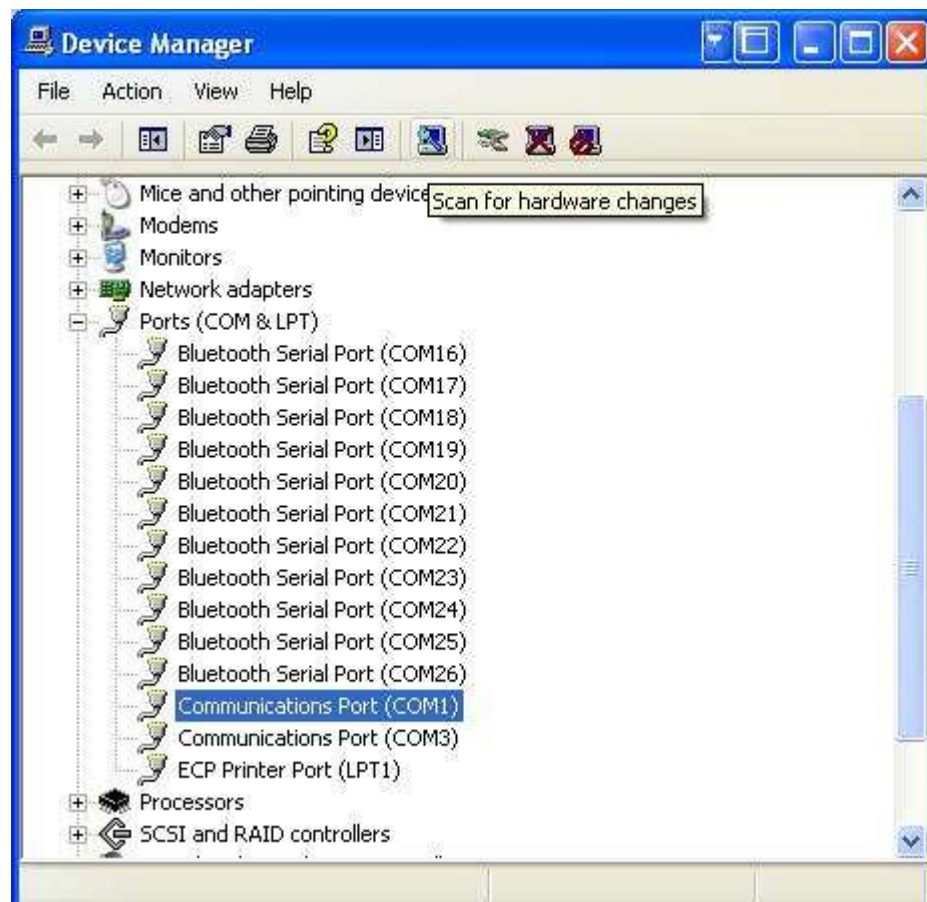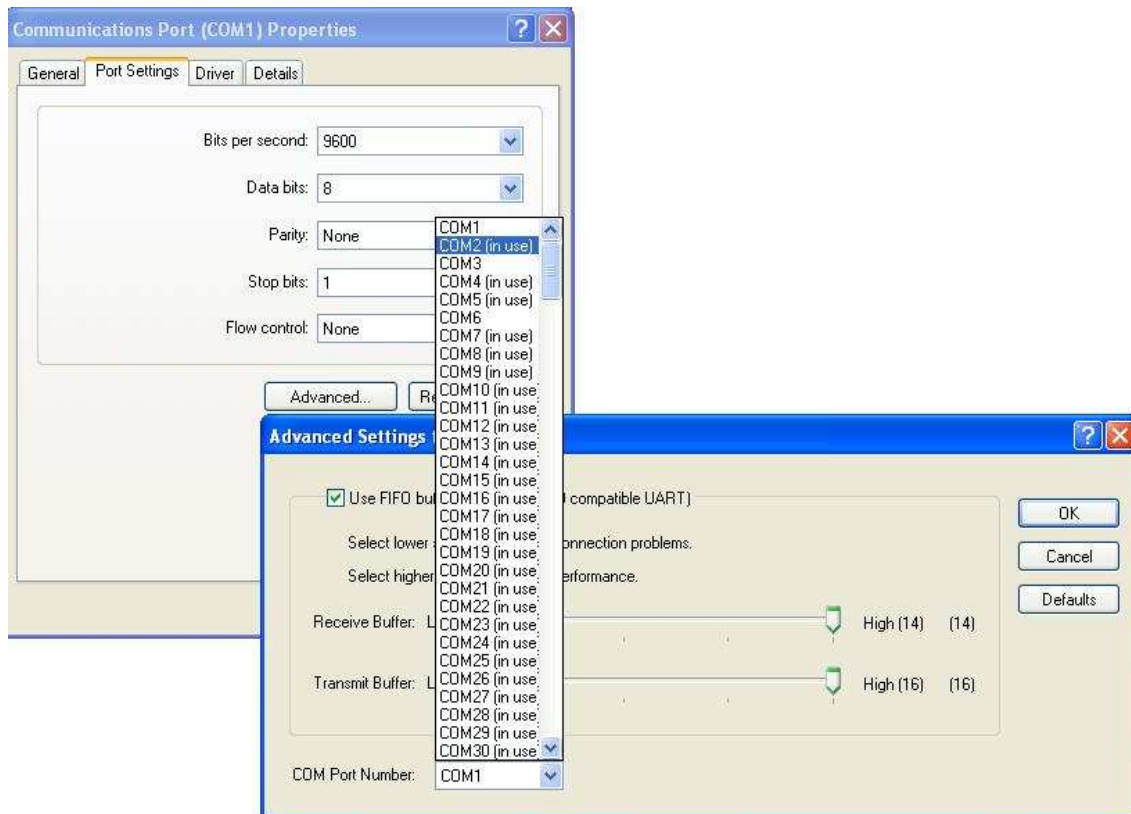# Connecting MOD-EKG to PC via MOD-USB-RS232 board
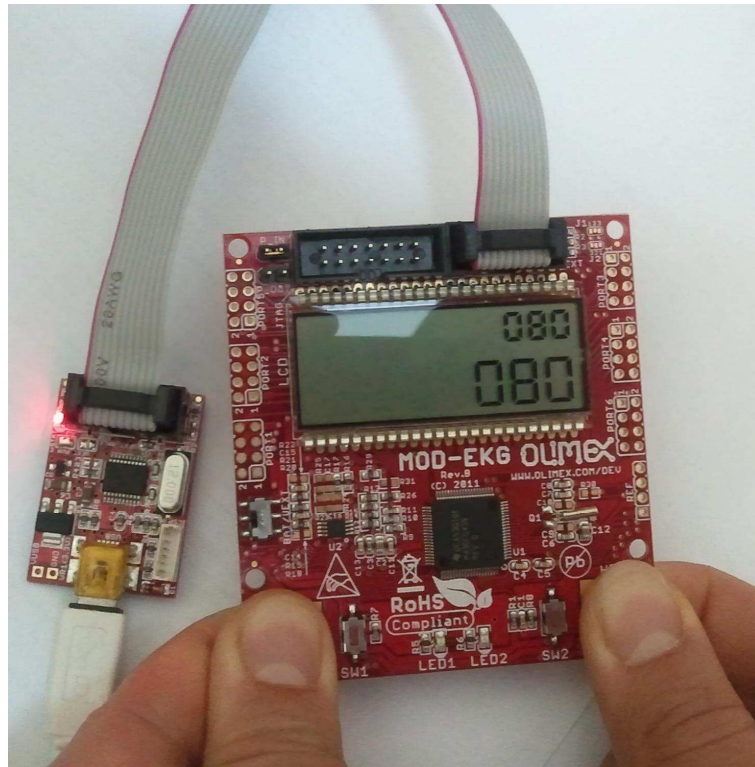
1. Before connecting MOD-USB-RS232 to MOD-EKG, several MOD-USB-RS232's jumpers must be changed from theirs default state!
   These jumpers are as follow:

   - 4_TX/4_RX must be changed in position 4_RX(2-3 closed);
   - 3_RX/3_TX must be changed in position 3_TX (2-3 closed);
   - UEXT_PWR_E have to be closed! This enables MOD-EKG power supplying via USB when its switch BAT/UEXT is in position UEXT. So in this case we're going to supply MOD-EKG via USB instead of BAT which also is possible.

2. Connect MOD-USB-RS232 to yours PC using USB cable. If everything is ok, you should be able to see in Device Manager/Ports(Com & LPT) that it is recognized like new Communication Port(COMx), where "x" can be any number for example 20. Now you must change this Communication Port(COMx) to be yours PC's Communication Port(COM1) because unfortunately TI's software "scope.exe" uses only COM1 to read and visualize ECG data sent by the MOD-EKG board to PC. This simply can be done like firstly changing yours default Communication Port(COM1) to any other port number for example to COM2 and after that change Communication Port(COMx) to COM1. One clue for doing that is:

Repeat this steps two times – first for COM1 and then again for COMx!

3.   Connect MOD-USB-RS232 to MOD-EKG via the MOD-USB-RS232's 10 leads flat flexible cable and MOD-EKG's UEXT connector.

4.   If MOD-EKG's switch BAT/UEXT is in position UEXT, then the board has to be power supplied. In other case, please slide the switch to the position UEXT.
5.   Run "scope.exe" from "Oscilloscope" directory and press the button Rolling.
6.   Place yours thumb and index fingers at MOD-EKG's HR1 and HR2 electrodes. If everything is all-right then on the LCD you will be able to see number of yours heart beats, while in the scope's screen will be shown yours ECG diagram!