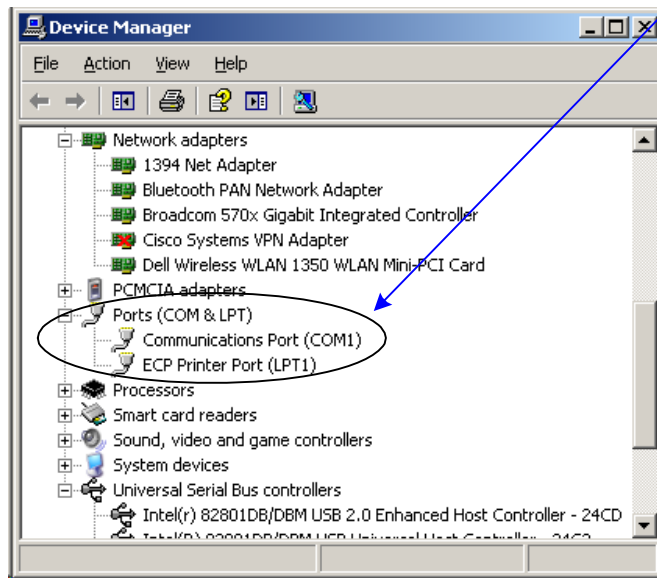


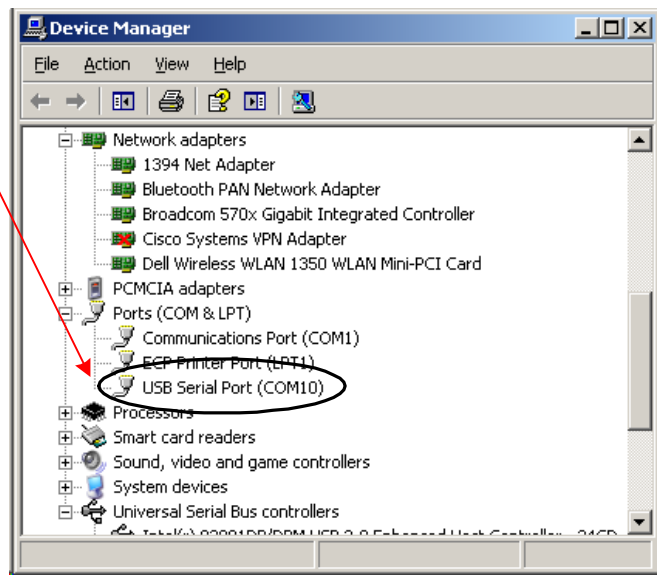
Testing a USB RS232 adapter

If connected, remove the USB RS232 adapter. In Windows, open Device Manager and expand the Ports section. While Device Manager is open insert the USB RS232 adapter and after a few seconds a USB Serial Port should appear. If not, there is a problem with the adapter or driver.

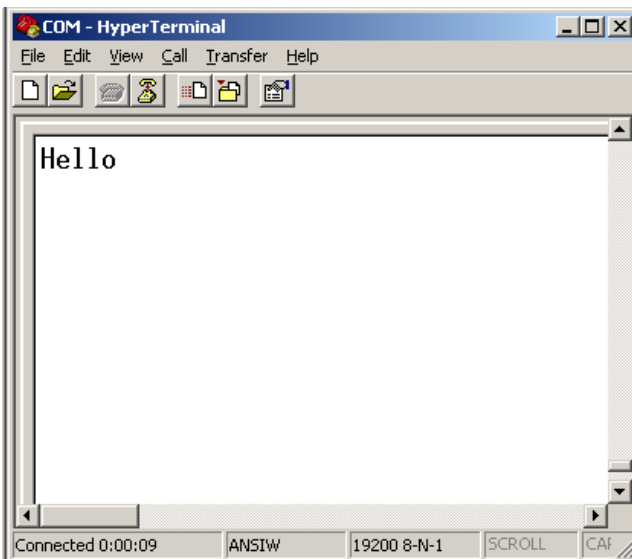
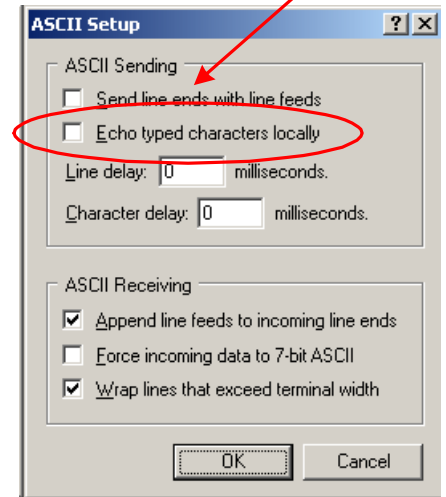
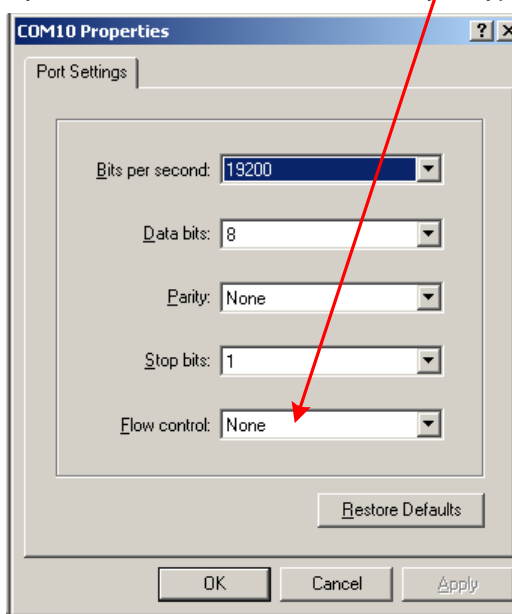
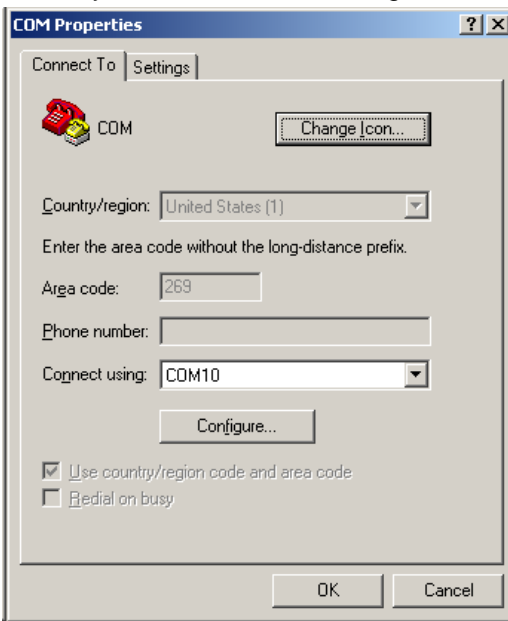


In this case, Com Port 10 has been assigned to the USB RS232 adapter.

NOTE: Each USB RS232 will be assigned a different port number



Open any terminal application, such as Windows HyperTerminal and configure it to use the appropriate port (in this case, Port 10). In the settings, set it at 19200 baud, 8 bits, No parity, 1 stop bit and no flow control as shown below. Also, turn off "Echo Locally" if enabled in the settings. Otherwise you will see double characters as you type if the adapter is working correctly.



To test Tx,Rx

On the USB adapter, short the **TTL side Tx and Rx pins** and type something in the terminal window. You should see the text as you type. If not, something is wrong with the adapter. Double check all wiring, soldering etc. **Note: If Echo Locally is enabled you will see double characters as you type.**

To test the RTS/CTS lines

While keeping the above settings, in the terminal configuration **turn on Hardware Flow Control (RTS/CTS)** and try typing something. You should *not* see any text. Now short the TTL side CTS/RTS pins and try typing again. This time you should see text as you type.