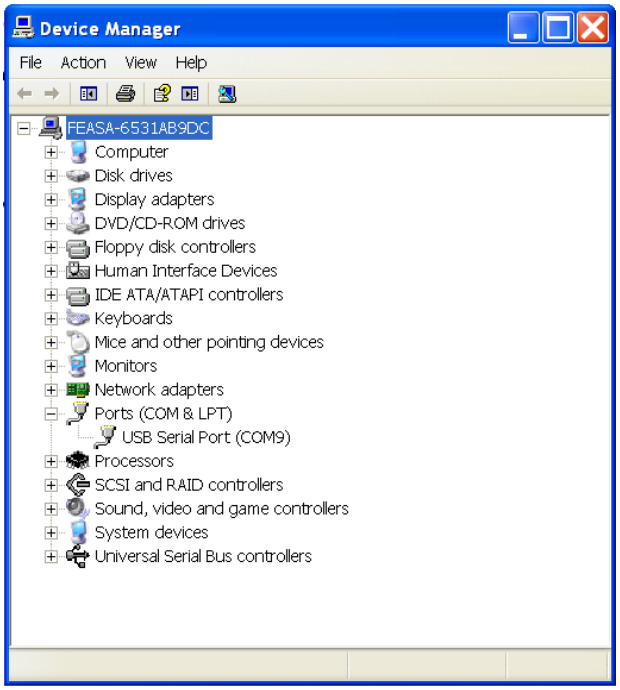
How to increase speed of USB connection to the LED Analyser in Windows

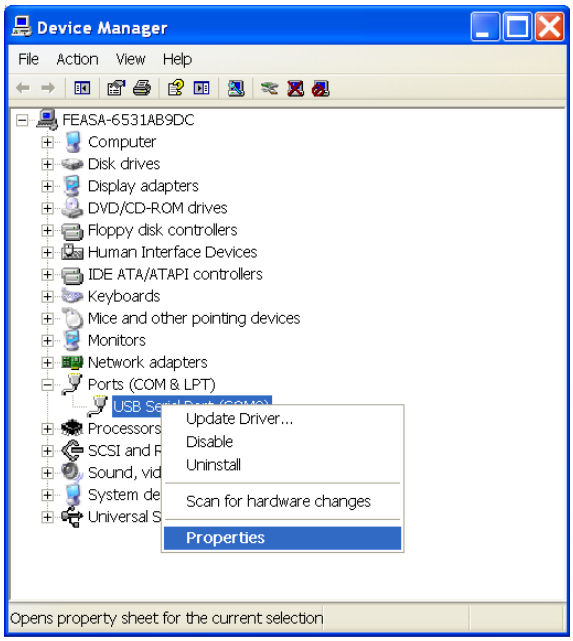
The windows operating systems controls how the USB interface to the LED Analyser operates. In order to optimize the speed of the USB transmission the following steps should be carried out. The speed of the USB transmission can be further improved by increasing the baud rate on the Analyser to 460800 baud. The combination of 460800 baud and 5ms latency allows a loop time of around 35 ms for capture4 plus GETRGBI01 to GETRGBI05 Vs 120ms using 57600 baud and 16ms latency.

The combination of 460800 bauds + 5 ms latency should allow a loop time of around 35 ms (capture4 + 5 RGB readings)

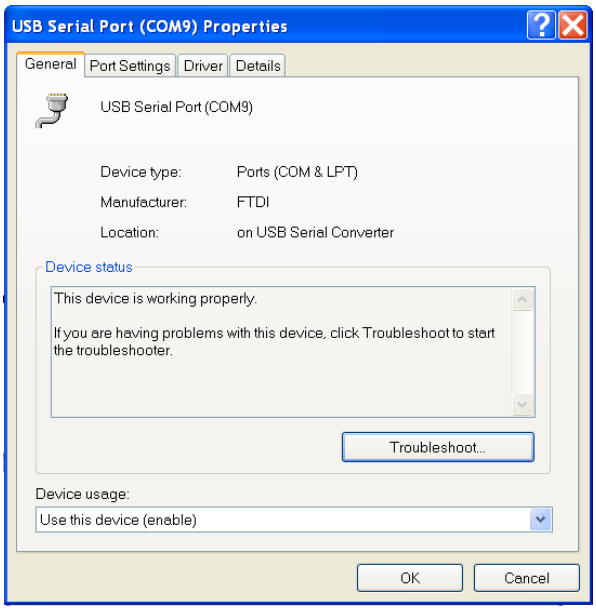
1. Open The Device Manager



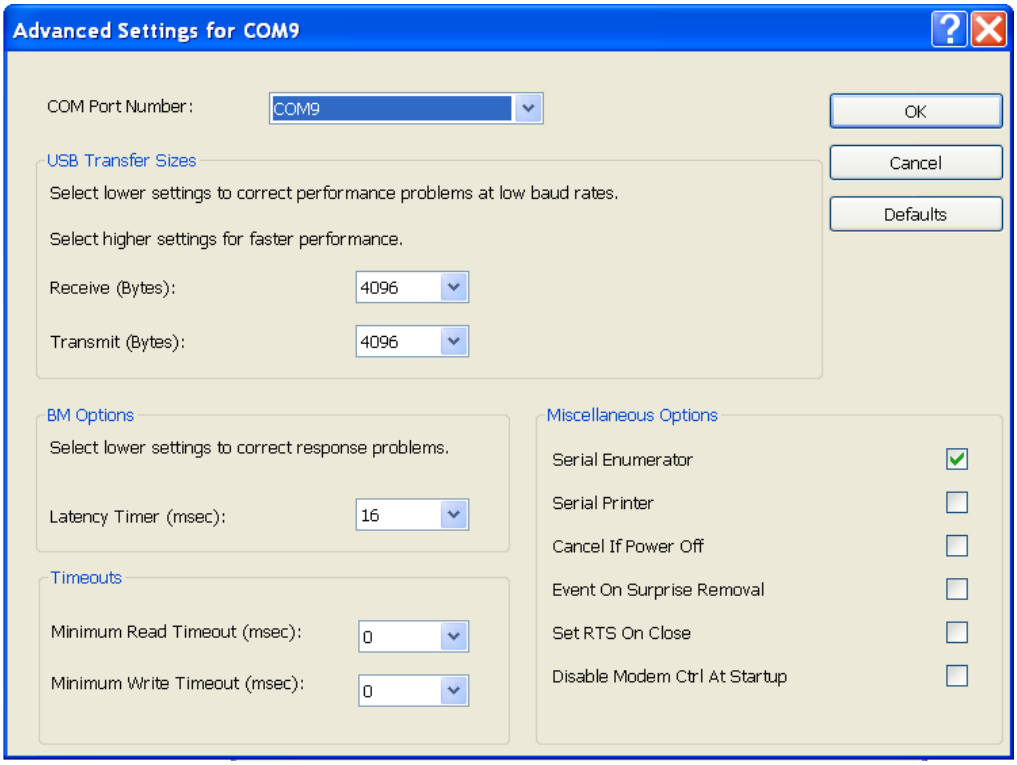
2. Under the Ports (Com and LPT) click on the USB Serial Port (COM9) for the connected LED Analyser (May be a different com port)



3. Click on **Properties** and the following window will be displayed



4. Click on the **Port Settings** tab then click on the **Advanced** button and the following screen will be displayed



5. In the BM Options section click on the **Latency Timer (msec)** drop down list and select **5** then click on **OK** then **OK** again to save the setting. The device manager can now be closed.