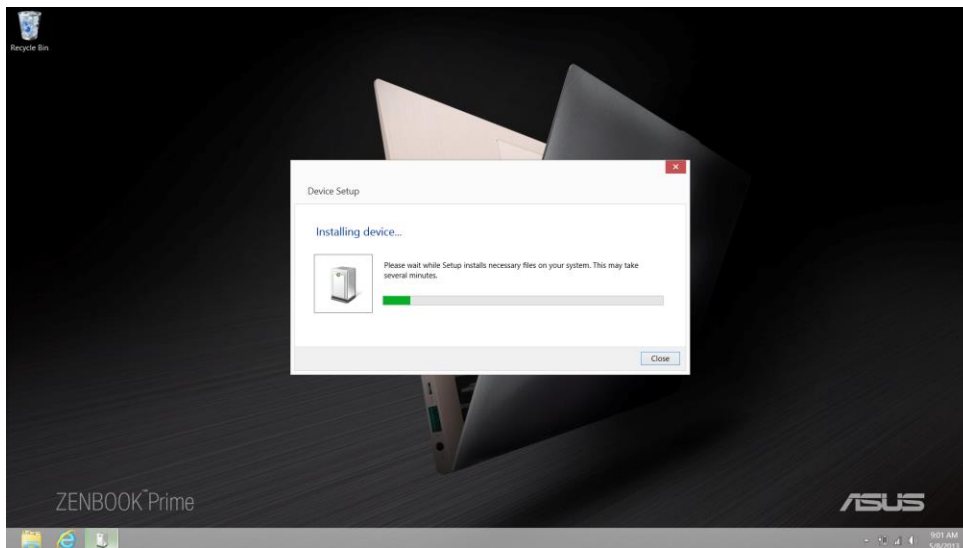


INSTALLING THE DRIVER FOR VANGUARD FT232R USB UART

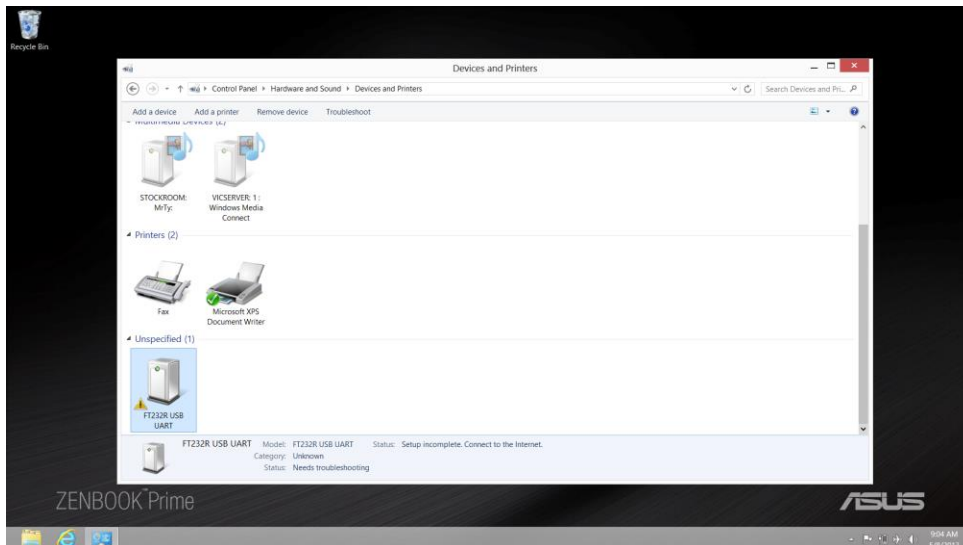
Please follow below instructions to install the driver for Vanguard USB to Serial Converter for the following Vanguard test set models: DigiTMR S2, DigiTMR PC S2, CT3500 S2, ATRT-03 S2 SN 20500 and above, TRM-20, TRM-203, TRM-40, TRM-403, EZCT-2000C, and CT-7000 S3.

1. All Vanguard test set models mention from above will have a USB interface to the PC. However, the USB input was converted to serial input internally through an adapter, therefore a driver for this adapter is required which provided by Windows.
2. If the PC is running on Windows 8 or earlier OS with no internet connection and has never been upgraded through Windows Upgrade. There are chances that Windows cannot find the driver for this adapter when connected to the Vanguard test set. Below is an example of the actual interface between Vanguard DigiTMR S2 to the Asus laptop running on Windows 8 without a connection to the internet.

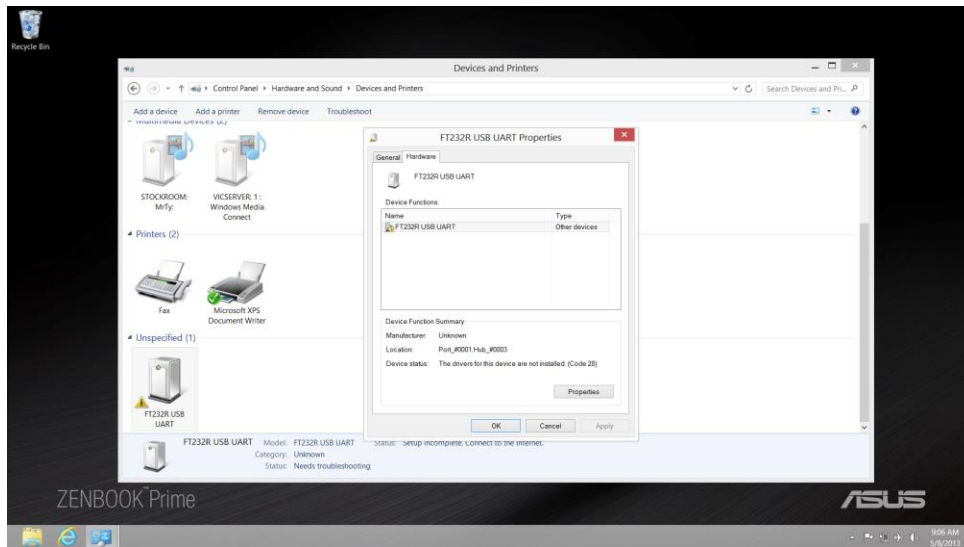
Notice how Windows is installing the driver when connecting to DigiTMR S2



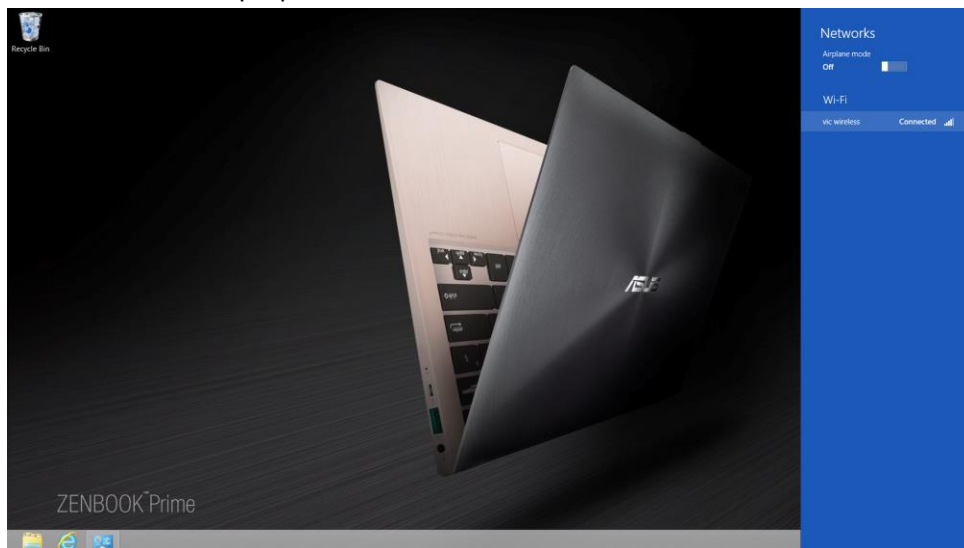
Windows finished with the installation; however the driver for the adapter was not found as indicated with the yellow exclamation under “Unspecified” section



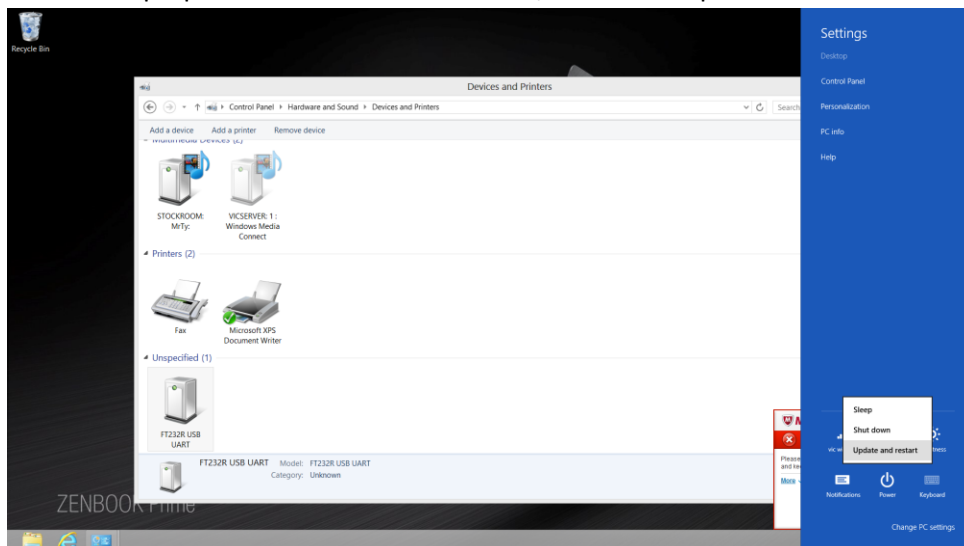
When double click on the device under “Unspecified”, notice how a COM port was not assigned simply because the driver was not installed



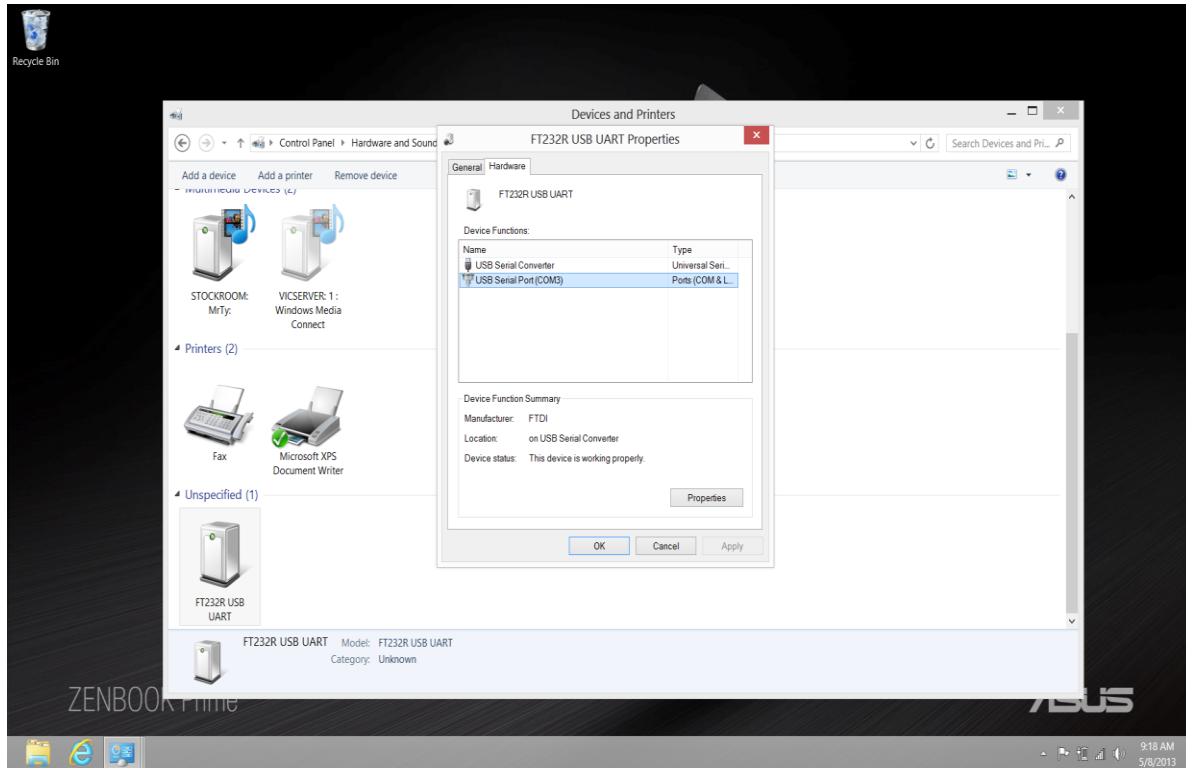
3. Let's connect the laptop to the internet.



4. Once the laptop is connected to the internet, let's select update Windows and Restart



5. Once Windows restarted, it's automatically installing the driver for the adapter, at this point the yellow exclamation mark should not display anymore and a COM port number was also assigned to the adapter under Properties. Please make sure the DigiTMR S2 test set is turned on and connected to the laptop throughout this entire procedure.



6. At this point, the test set is ready to run via PC mode, make sure the COM port number is selected under Application setup from the Vanguard PC Software without selecting USB mode. The below picture is an example to show how to set up the communication for the Vanguard VCBA S2 PC software. Notice COM3 was selected and Use USB Port was unchecked.

