



# WINDOWS DRIVER INSTALLATION

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Version 1.2  
September 27, 2017

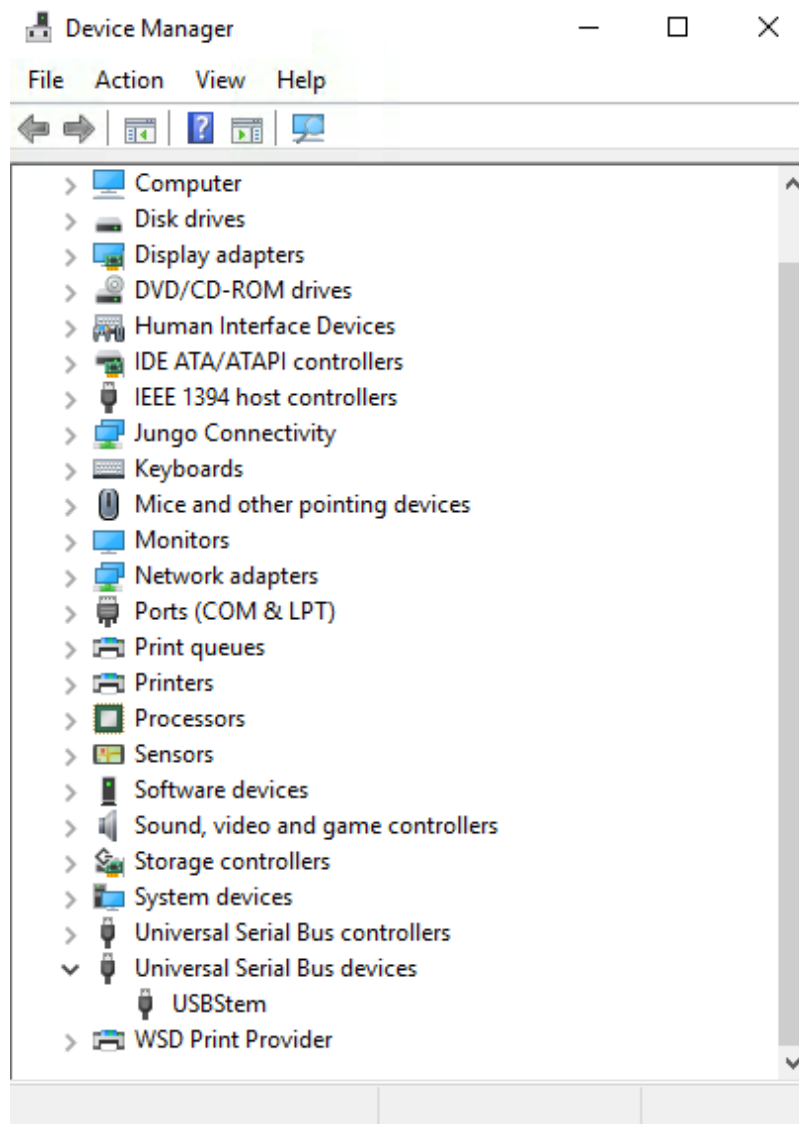
## Introduction

BrainStem devices which use USB link transports generally do not require drivers on modern operating systems. Older operating systems, like Microsoft Windows 7, require a “inf file” to specify for Windows to use its built in USB drivers. Details of this installation are shown below. Carefully follow each step for a successful installation.

## Window 10

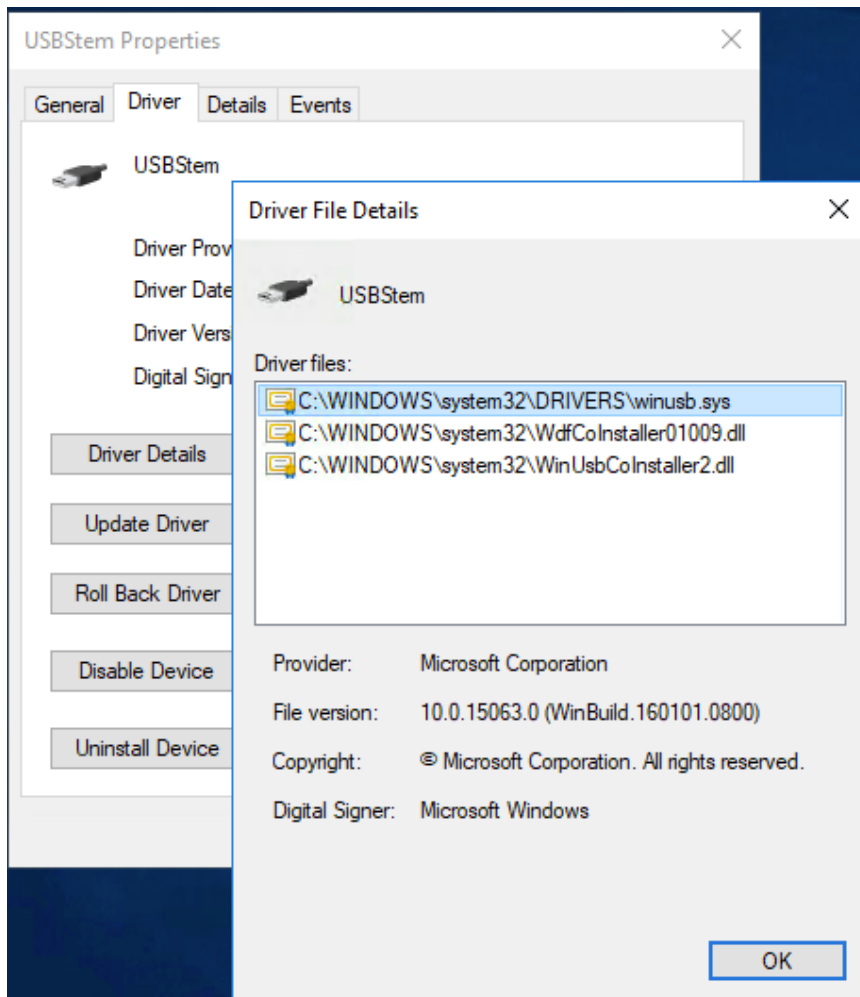
### BrainStem: No Driver Needed

Windows 10 does not need a driver. In the Windows Device Manager, under “Universal Serial Bus Devices”, you should see a device entry named “BrainStem” or with the BrainStem module name.



To confirm that the default Windows WinUSB driver is being loaded:

1. Connect the Acroname device to the host.
2. Open the Device Manager.
3. Expand the “Universal Serial Bus devices” entry.
4. Find and right click on the Acroname device.
5. Select “Properties”.
6. Navigate to the “Driver” pane.
7. Click “Driver Details”.
8. The dialog box should point to “C:\Windows\system32\DRIVERS\winusb.sys” or similar.

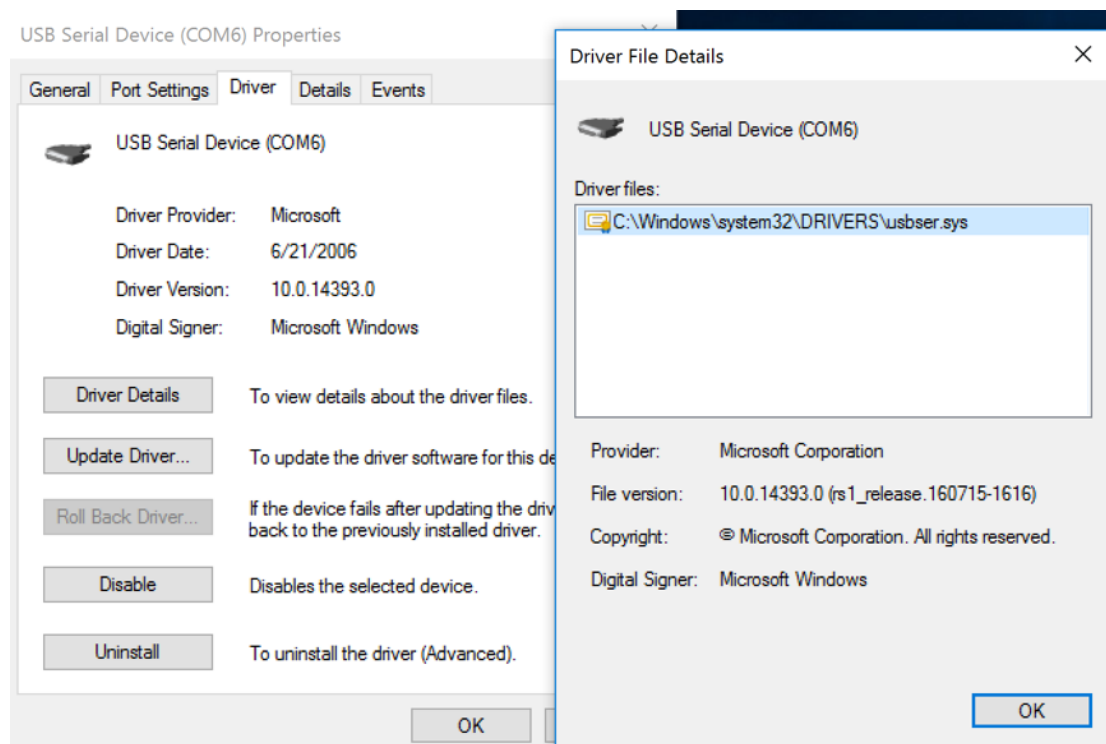


## UARTs: No Driver Needed

Similarly, no drivers are needed to access the UART devices on Acroname Device. After connecting the module to the host, the Device Manager will show two “USB Serial Device” entries under “Ports (COM & LPT)”.

To confirm that the default Windows WinUSB driver is being loaded:

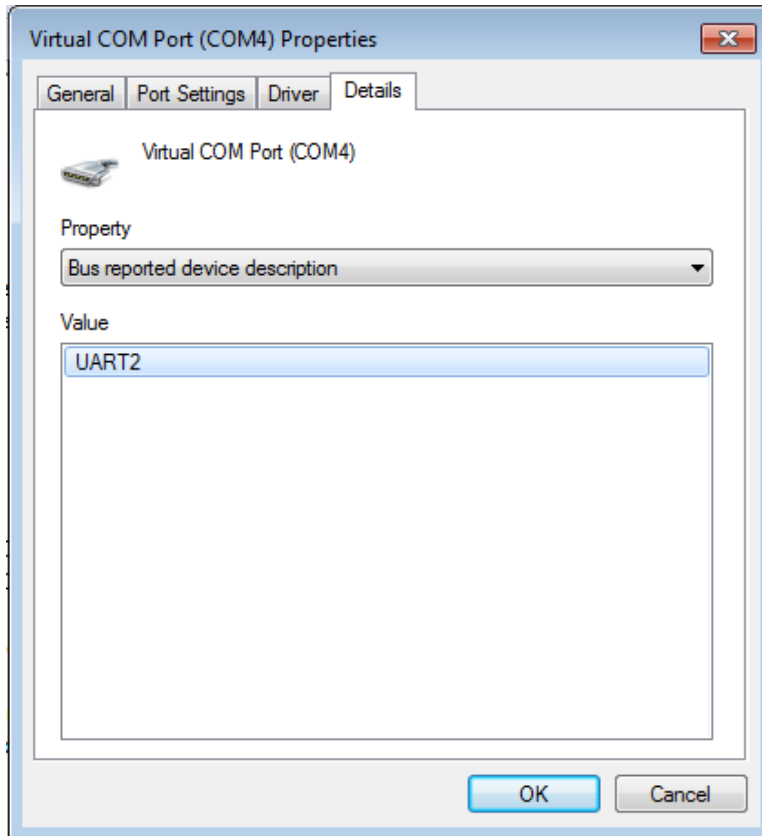
1. Connect the Acroname device to the host.
2. Open the Device Manager.
3. Expand the “Ports (COM & LPT)” entry.
4. Find and right click one of the “USB Serial Device” entry which appear when the module is connected.
5. Select “Properties”.
6. Navigate to the “Driver” pane.
7. Click “Driver Details”.
8. The dialog box should point to “C:\Windows\system32\DRIVERS\usbser.sys” or similar.



Windows automatically assigns a COM port number for USB Serial Devices like the Acroname Device.

1. Connect the Acroname device to the host.
2. Open the Device Manager.
3. Expand the “Ports (COM & LPT)” entry.

4. Find and right click one of the “USB Serial Device” entry which appear when the module is connected.
5. Select “Properties”.
6. Navigate to the “Details” pane
7. Select “Bus reported device description” from the drop down menu.
8. The entry will show “UART1” or “UART2”.

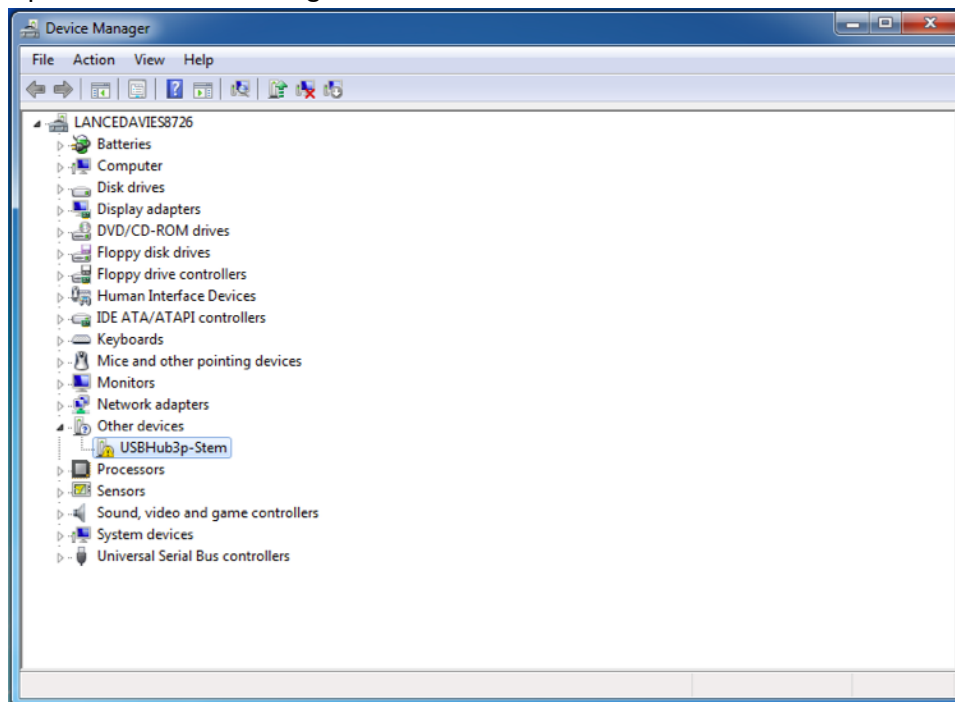


## Window 7 or similar

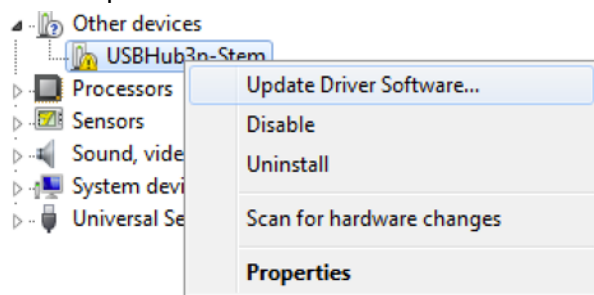
### BrainStem

Older operating systems, like Microsoft Windows 7, require a “inf file” to specify for Windows to use its built in USB drivers. Details of this installation are shown below. Carefully follow each step for a successful installation.

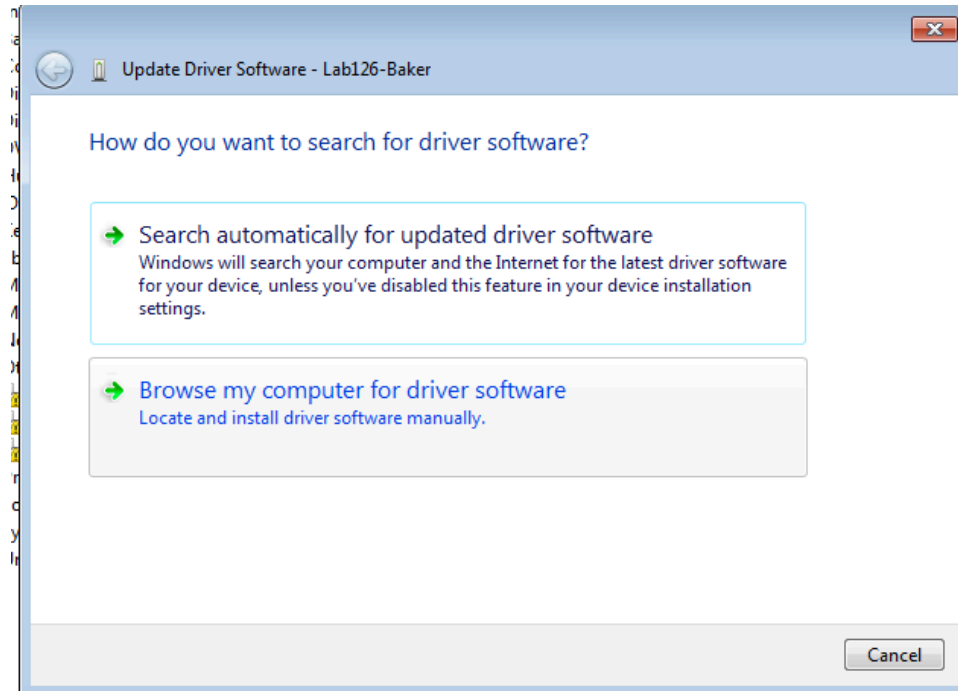
1. Connect the Acroname Device to the host.
2. Click on the Driver Installation indicator in the Windows tool bar.
3. Click “Skip obtaining driver software from Windows Update”.
4. Click Yes in the confirmation dialog box.
5. Open the Device Manager to see 3 entries under “Other devices”.



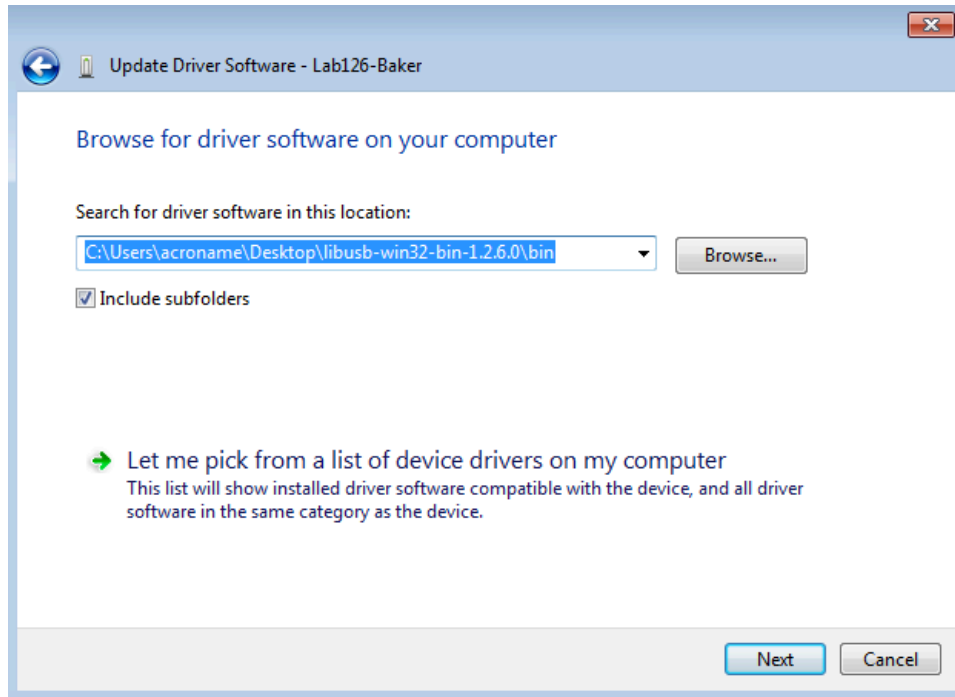
6. Right click on the Acroname device.
7. Select “Update Driver Software...”



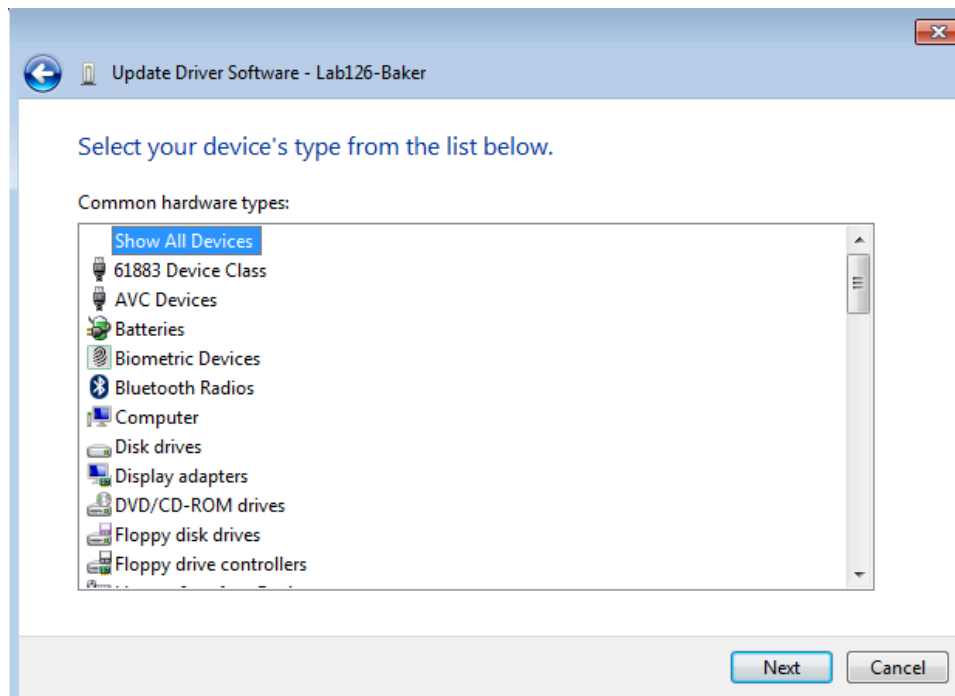
8. Select "Browse my computer for driver software".



9. Select “Let me pick from a list of device drivers on my computer”.

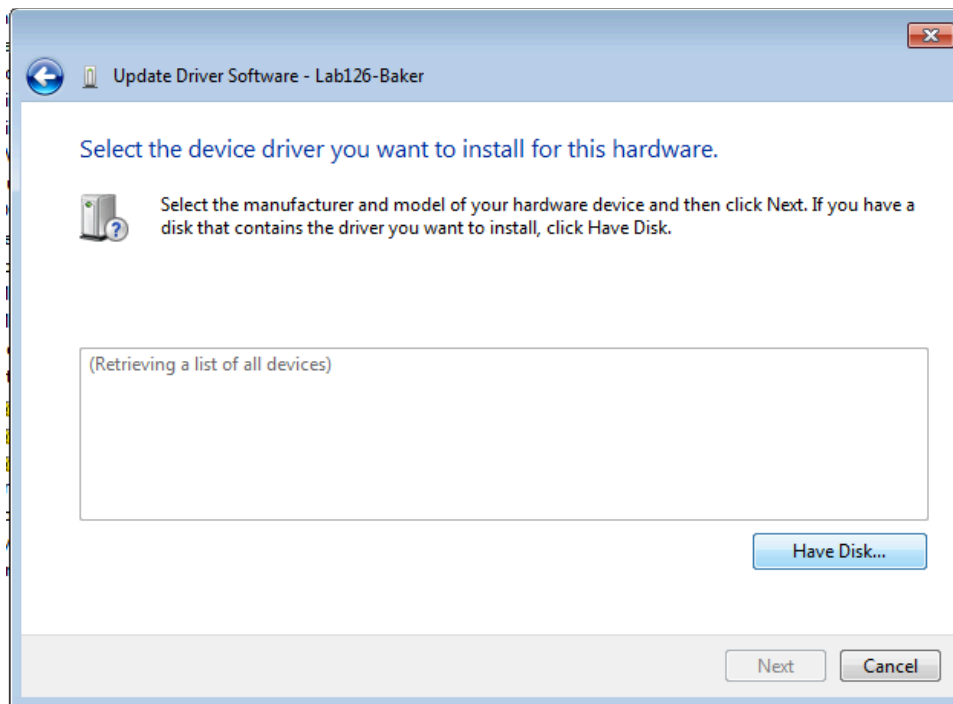


10. Select Next



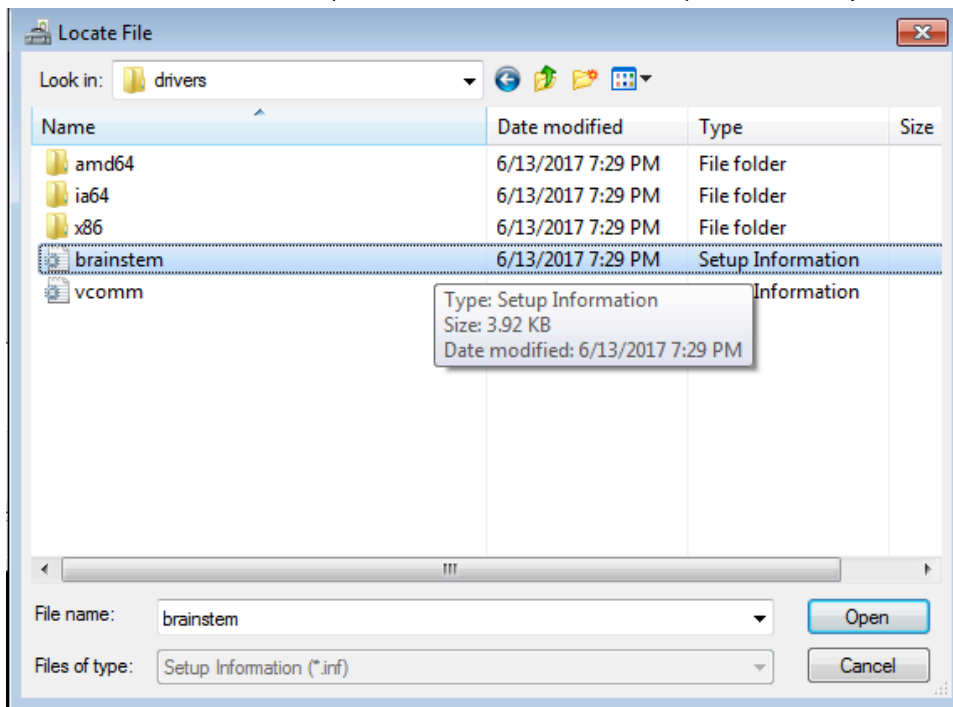


11. Select “Have Disk...”



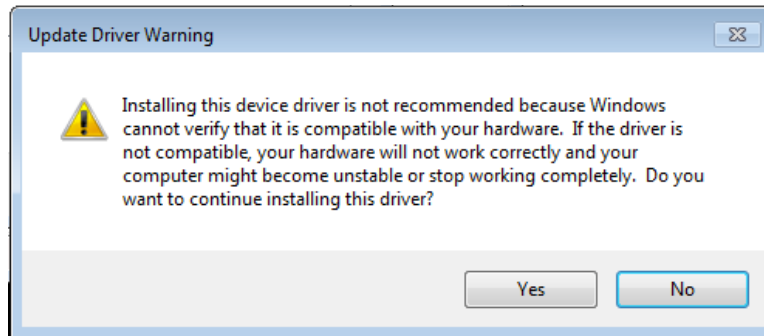
12. With “Browse...” button, navigate to the unzipped download package (available at <https://acroname.com/software>).

13. Select the brainstem file (full file name; brainstem.inf) and click Open.

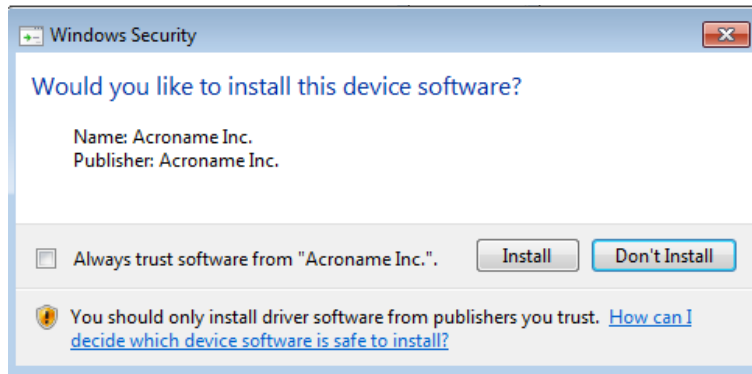


14. Select “BrainStem” under Model and click “Next”.

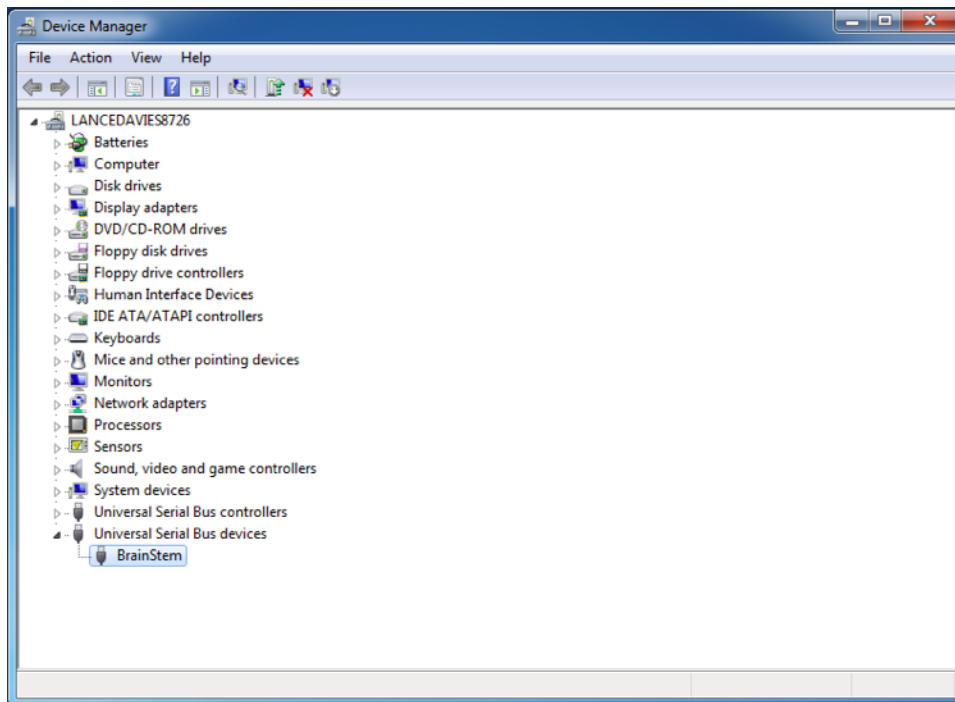
15. Click Yes to the “Update Driver Warning”.



16. Check “Always trust..” and click “Install”.



17. Notice that the Acroname device entry in the Device Manager will now be under “Universal Serial Bus devices” as either a “BrainStem” or the specific name of the device.

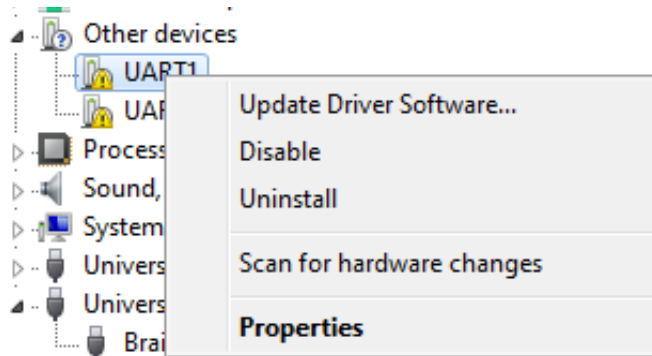


## UARTs

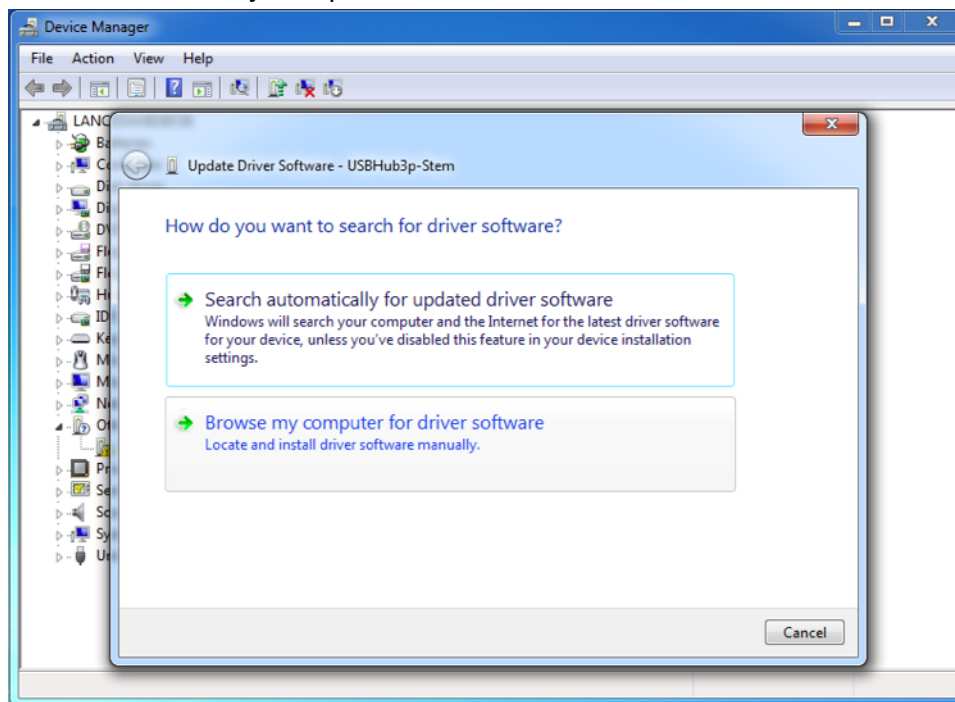
Similarly, older operating systems, like Microsoft Windows 7, require a “inf file” to specify for Windows to use its built in USB serial drivers for the UARTs. Details of this installation are shown below. Carefully follow each step for a successful installation, which are continued from the above steps.

**18.** In the Device Manager, right click on one of the “UART” entries.

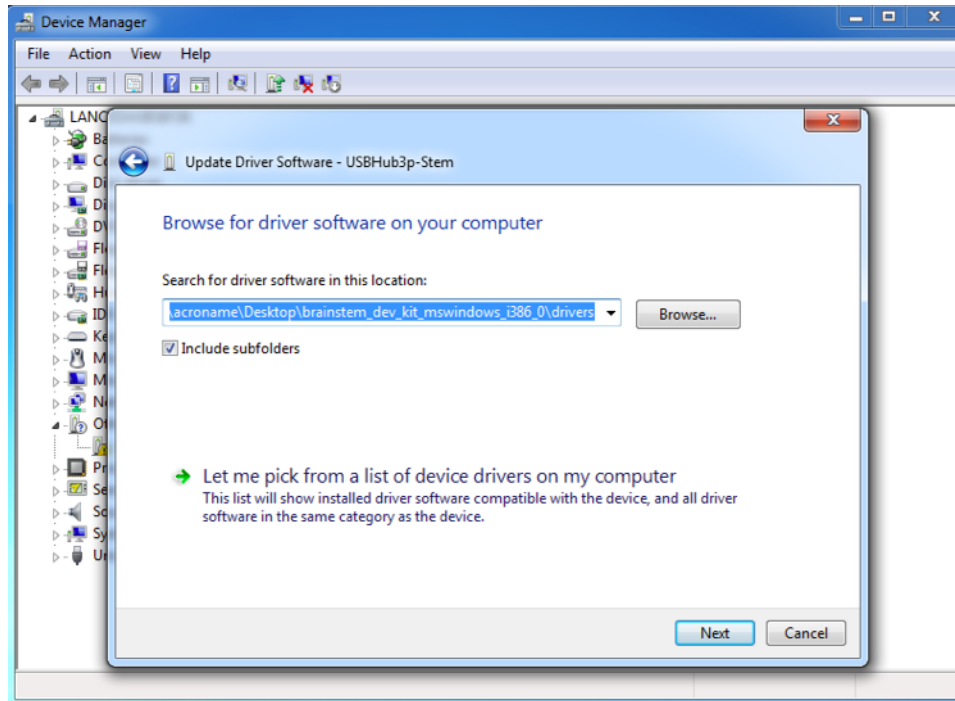
**19.** Select “Update Driver Software...”



**20.** Select “Browse my computer for driver software”.



21. Select “Let me pick from a list of device drivers on my computer”.

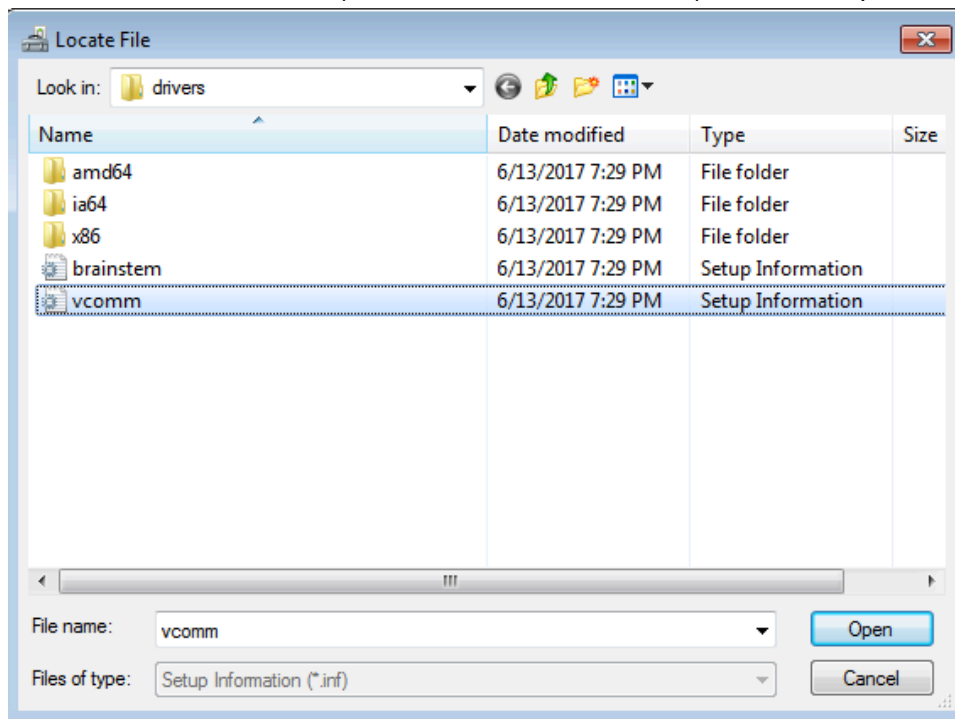


22. Select Next

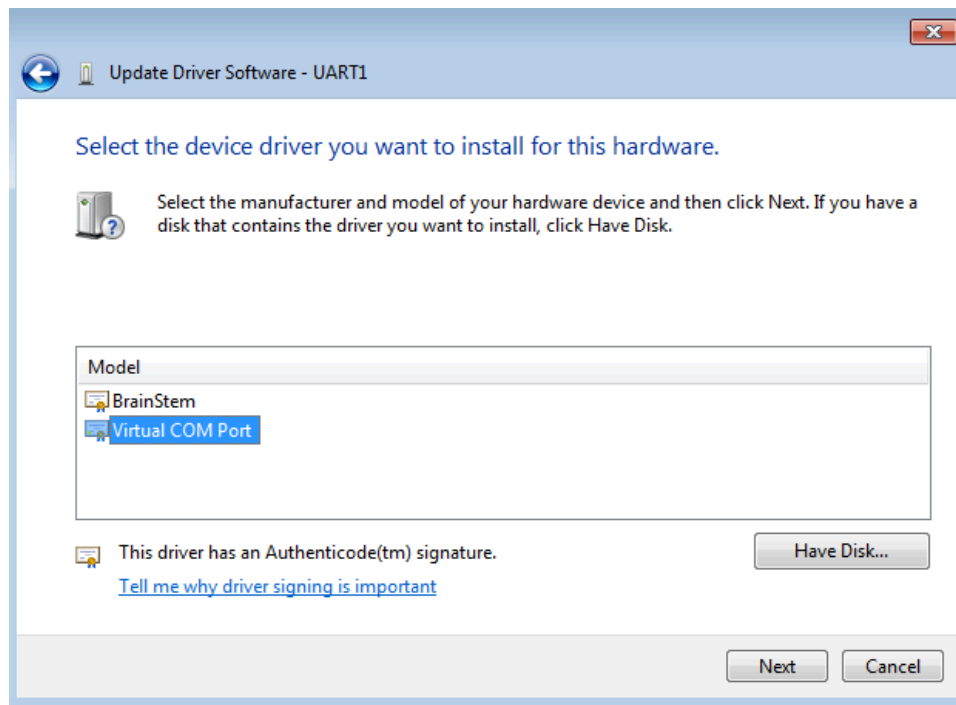
23. Select “Have Disk...”

24. With “Browse...” button, navigate to the unzipped download package (available at <https://acroname.com/software>).

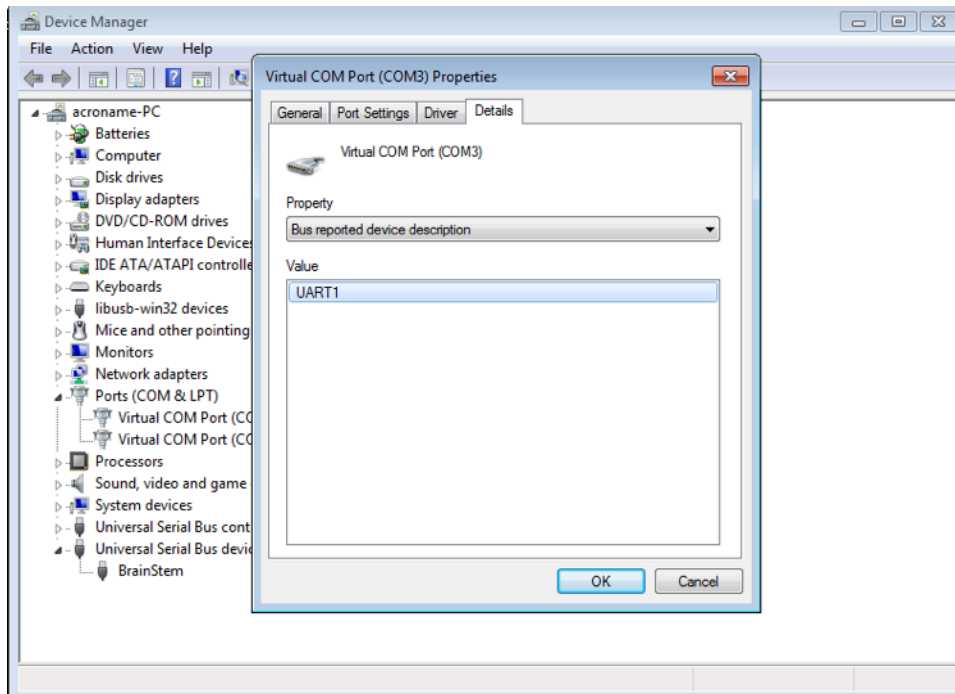
25. Select the brainstem file (full file name; brainstem.inf) and click Open.



26. Select “Virtual COM Port” and click “Next”.



27. Notice that the “UART” device now appears as an entry under “Ports (COM & LPT)” labeled either “Virtual COM Port” or “USB Serial Device”.



28. Repeat 18-27 for the other “UART” entry in the Device Manager.