

3.2 DLP Discovery 4100 Operation

The DLP Discovery 4100 Development Kit is capable of operating at about 7-10 DMD frames per second (DMD dependent) when connected to a host system's USB 2.0 port.

3.2.1 Quick Start Guide on Operation

The following steps must be followed in order to operate the device:

1. Install the software by executing *D4100Explorer-2.0-windows-installer.exe*. Install the software BEFORE connecting the DLP Discovery 4100 Development Kit with USB. The setup program will install the software and driver INF files necessary for operation.
2. A reboot is recommended before connecting the kit because some systems will not properly install the drivers if the system is not re-booted first.
3. Connect the DLP Discovery 4100 Development Kit board with a USB 2.0 [mini-B to Type A] cable and apply power to the DLP Discovery 4100 Development Kit. The operating system will detect the USB device and automatically install or prompt to install the driver.
4. If automatic driver installation fails, go to Device Manager (Search for Device Manager in Windows search bar).
5. Find the device and right click to select "Update Driver Software".

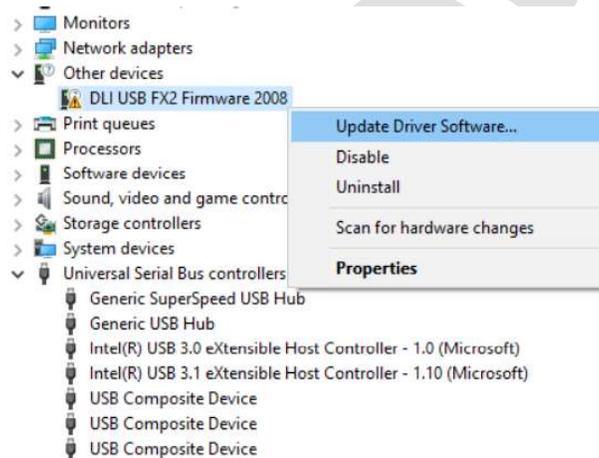


Figure 3-2. Update Driver Software

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

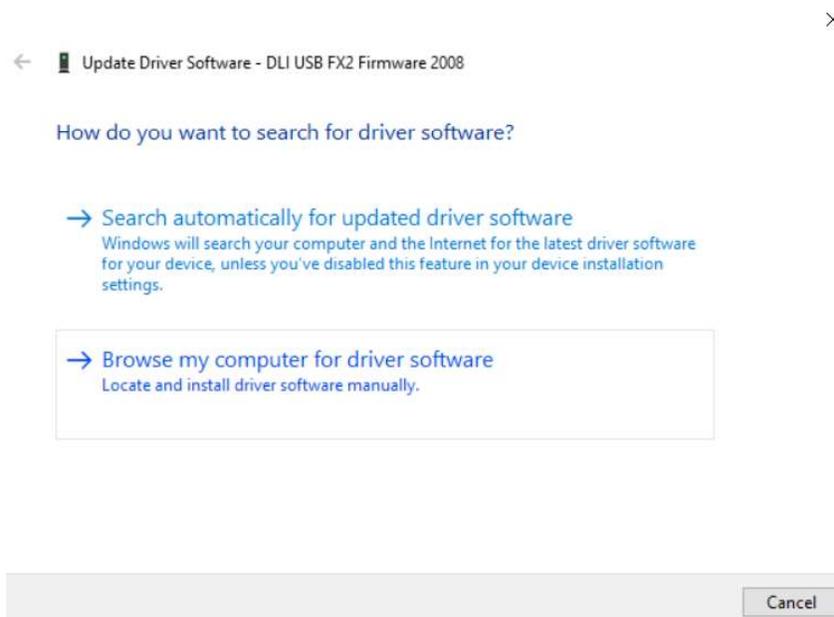


Figure 3-3. Browse for Driver Software

7. Click **Let me pick from a list of device drivers on my computer.**

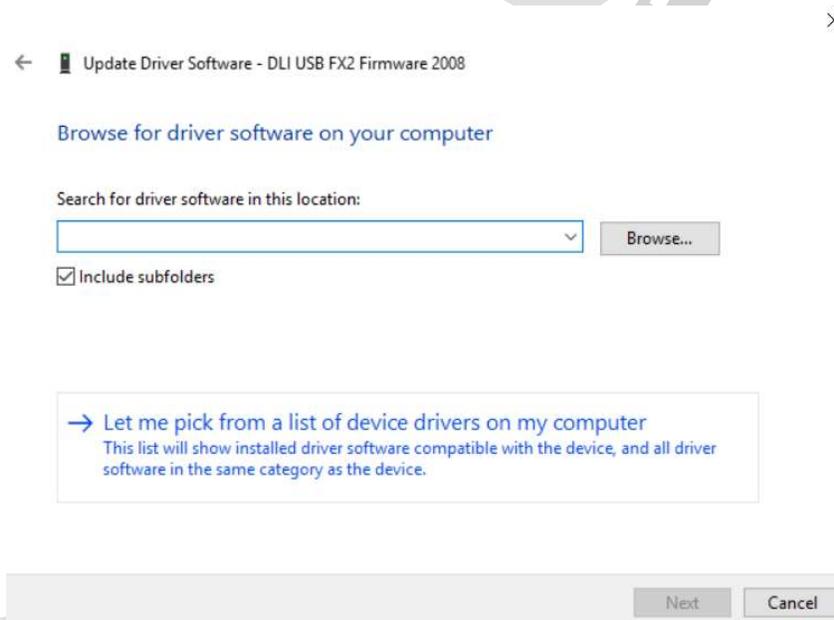


Figure 3-4. Pick from a list of Device Drivers

8. Select "Universal Serial Bus devices". Click Next.

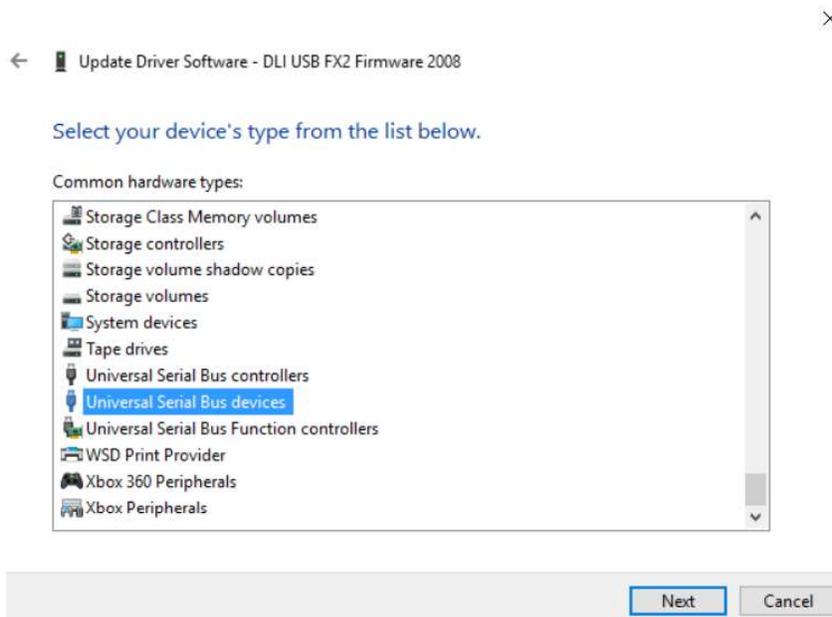


Figure 3-5. Select Universal Serial Bus devices

9. Click on **Have Disk**.

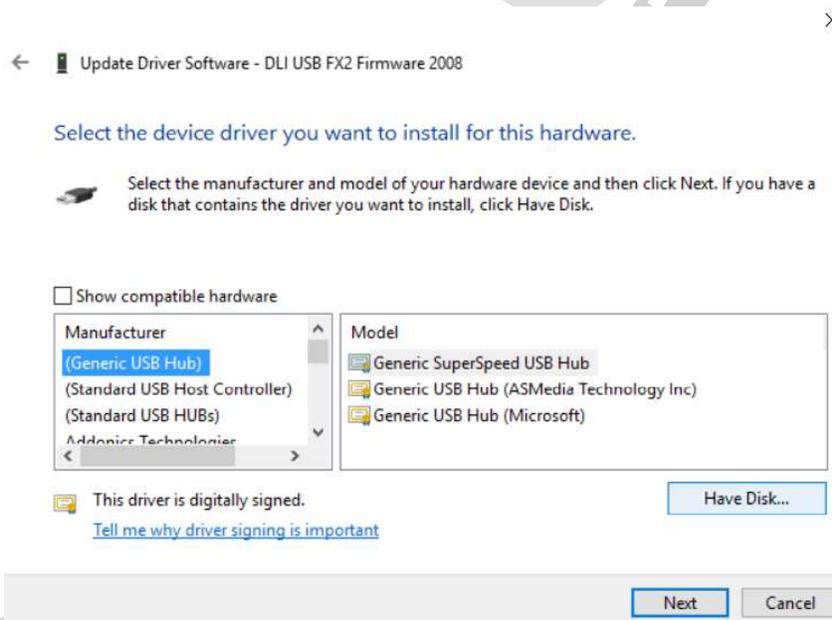


Figure 3-6. Have Disk

10. Browse to folder that contains the file *D4100-USB.inf*. This file should be found in <GUI Install Directory>\Driver\. For example, in the Windows 10 64 bit operating environment, navigate to *C:\Program Files (x86)\D4100Explorer\Driver\Win10\64*. Click **OK**.

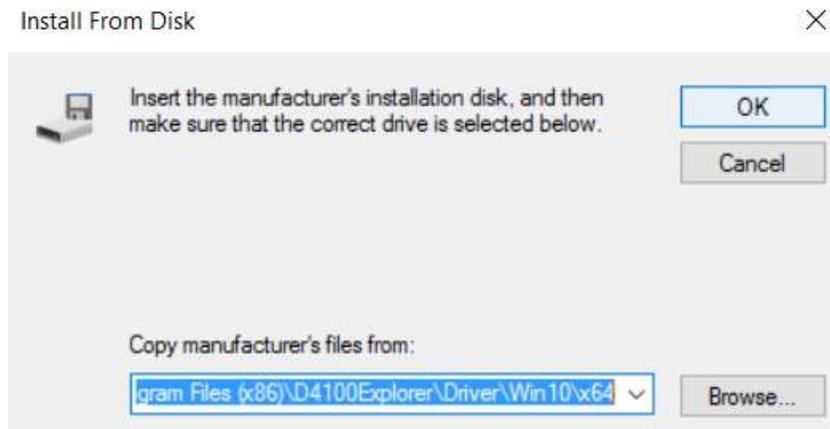


Figure 3-7. Browse for .inf file

11. Click **TI D4100 Explorer**
12. Click **Next**.

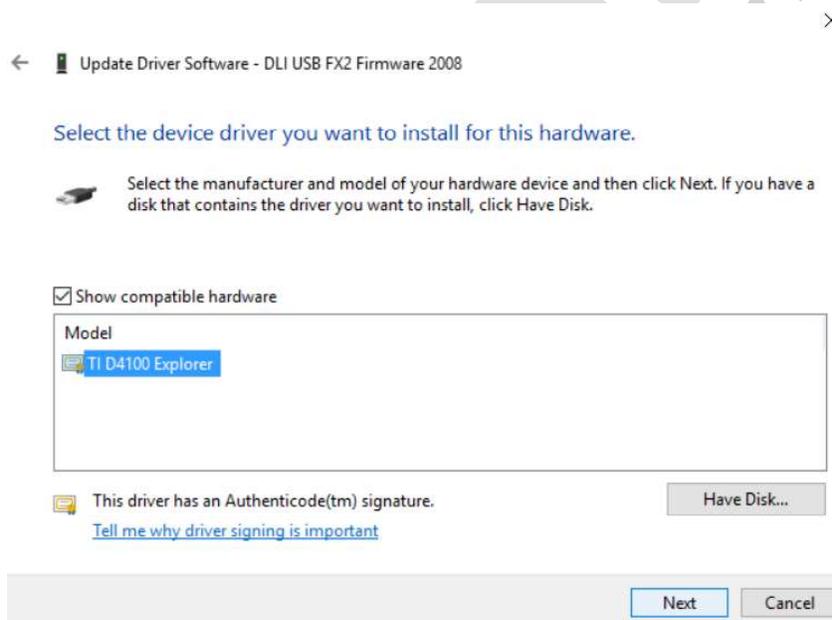


Figure 3-8. Select "TI D4100 Explorer"

13. Windows installs the driver.
14. Click **Close**.

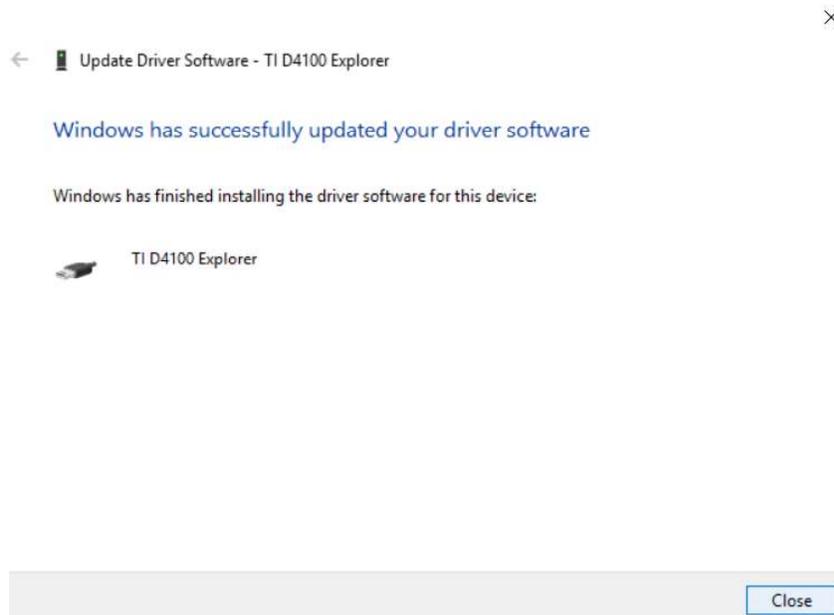


Figure 3-9. Driver Installation Window

15. Verify driver installation in **Device Manager** window as shown in [Figure 3-10](#).



Figure 3-10. Verify Device

16. Start the DLP Discovery Explorer software from the *Start/Texas Instruments/DLP Discovery 4100 Explorer* menu.

17. The software will start. The USB connection status and DMD type should be displayed in the lower left status panel ([Figure 3-11](#)):