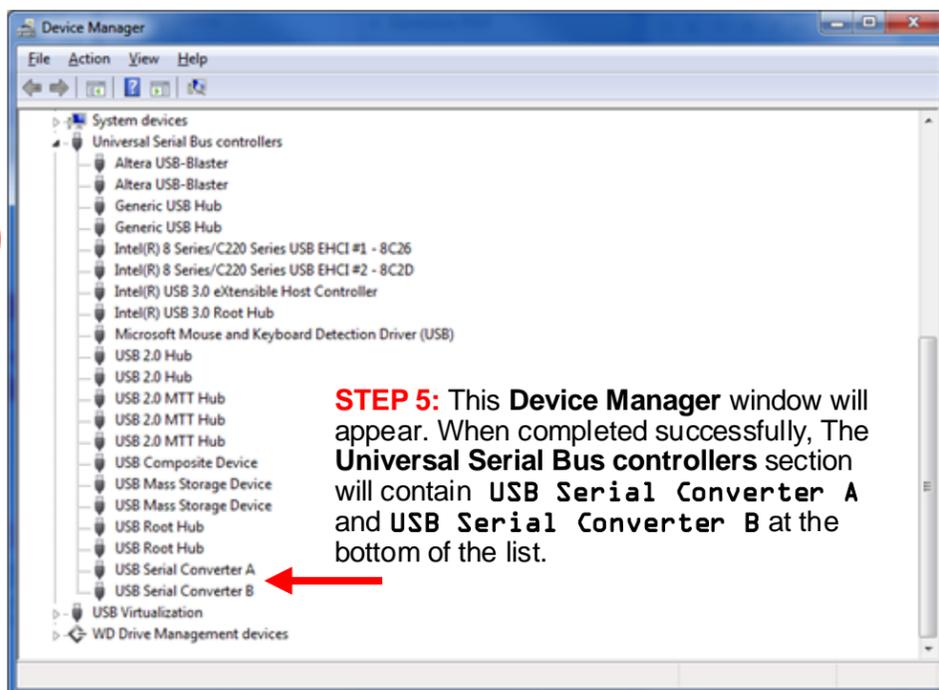
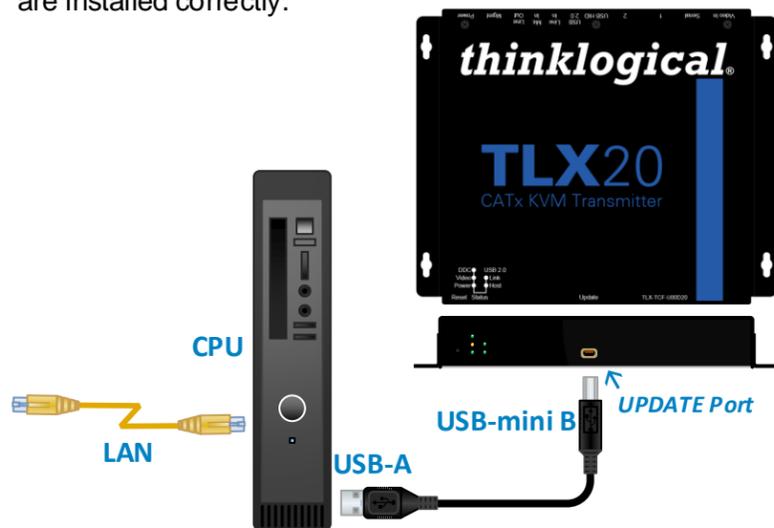
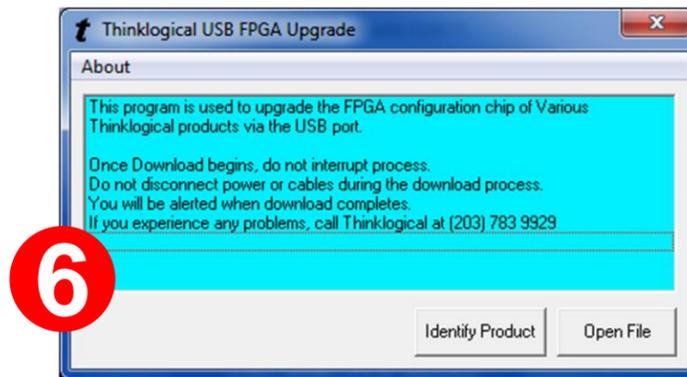


- 1 STEP 1: FPGA Update Preparation:** Please contact your **thinklogical** Sales Representative or Customer Service (1-203-647-8700) for access to the FPGA Download Update application and firmware.
- 2 STEP 2:** Install the provided FPGA Download Update application on the system's CPU.
- 3 STEP 3:** Save the FPGA program code update file provided by Thinklogical to a known location on the CPU. The program code update file will have a file extension of ".lbf". This is the file that will be retrieved in Step 9.
- 4 STEP 4: Connect a USB mini-B cable from the Update Port of the TLX10 or TLX20 chassis to the CPU.** (When connecting Thinklogical equipment to your PC for the first time, it may take a few moments for Windows to correctly install the required drivers.) Open the Windows *Device Manager* to check that all drivers are installed correctly.



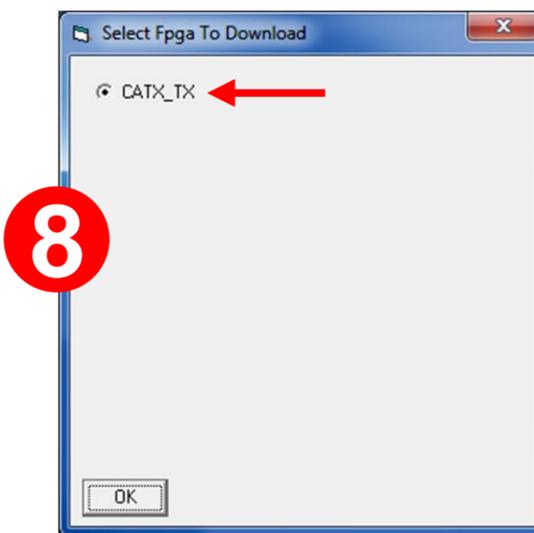
**STEP 5:** This Device Manager window will appear. When completed successfully, The **Universal Serial Bus controllers** section will contain **USB Serial Converter A** and **USB Serial Converter B** at the bottom of the list.



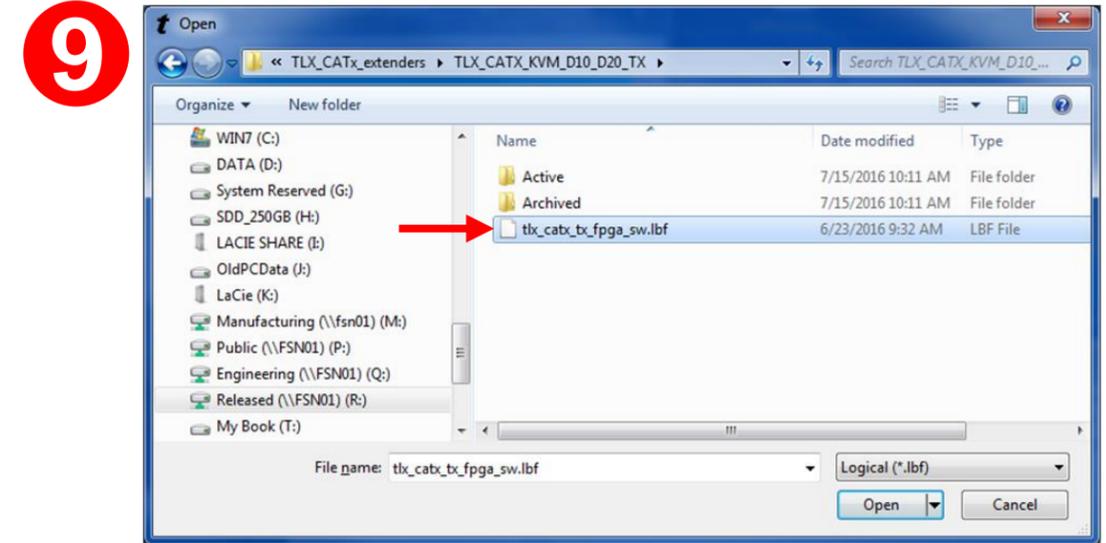
**STEP 6:** Once the drivers are installed, go to the **Start** menu and choose: **Start → All Programs → FPGA\_Download → FPGA\_Download**. The window above will appear. Select *Identify Product*.



**STEP 7:** If you do not see **CATX\_TX**, call **Thinklogical** for assistance. Otherwise, select *Open File*.



**STEP 8:** A window similar to this will open. As shown, there is only one firmware option for each of the CATX Extender Transmitters. To upgrade the Tx, select the file and click **OK**. as shown above.



**STEP 9:** A dialog box similar to this will appear. **Navigate to the folder with the unzipped firmware files from Step 3 (tlx\_catx\_tx\_fpga\_sw.lbf)**. The dialog box will already be populated with the correct file name. Click *Open*. This will take approximately 10 minutes. The *Upgrade* window will open again.



**STEP 10:** Select *Open File* and repeat the previous steps to update the RX modules. Be sure to move the USB cable to the Receiver's Update Port.

**STEP 11:** To make the new firmware active, cycle power to the unit by momentarily removing and reinstalling the power cord.

If you have any problems or questions, please call **thinklogical** for help: 203-647-8700

