

# out of the **B** **X**

## How to load .pof

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*Last Updated August 9, 2016*

## Table of Contents

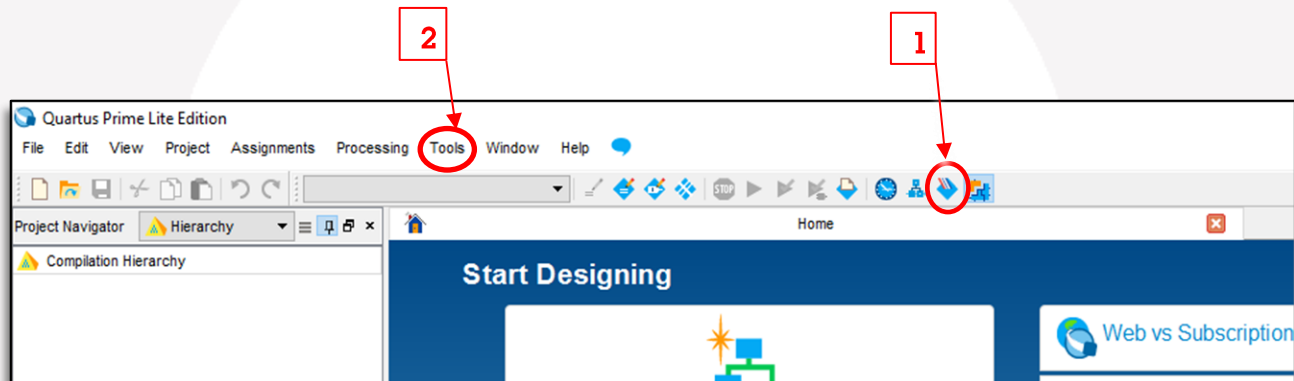
Loading the CPLD Programmer .....	3
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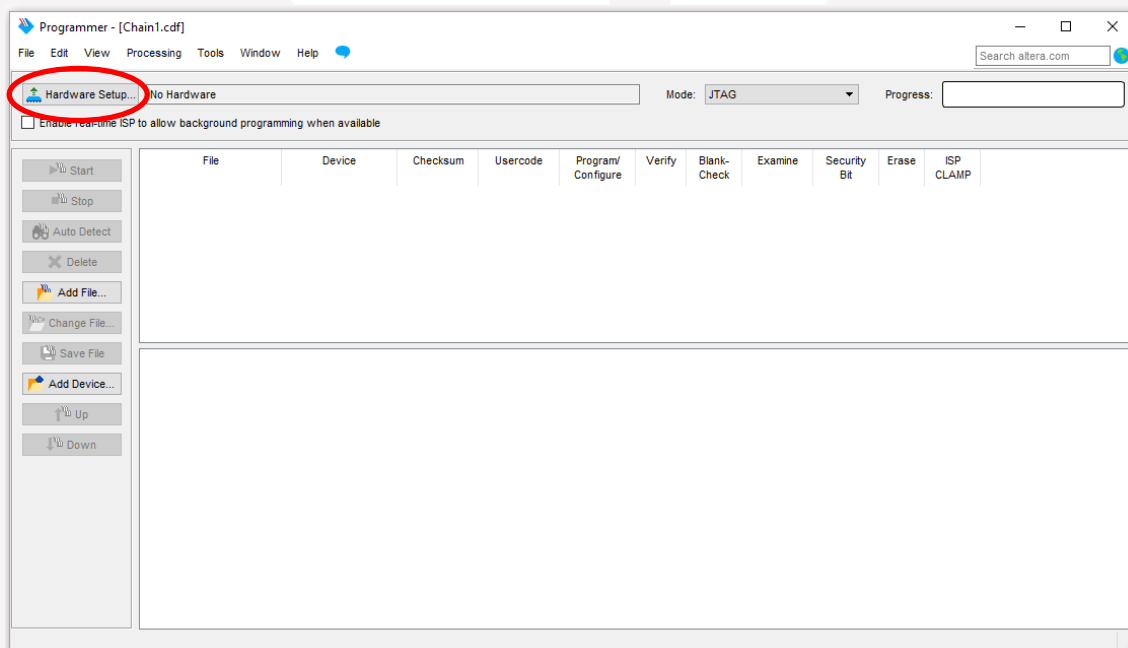
## Loading the CPLD Programmer

In order for the CPLD to interface with the Flash Programmer, it needs to be loaded with the proper '.pof' file. To do this is simple. You will first need to download the latest FlashProgrammer.pof from the website. You may save it anywhere that is convenient. Once this is done, open Quartus prime.

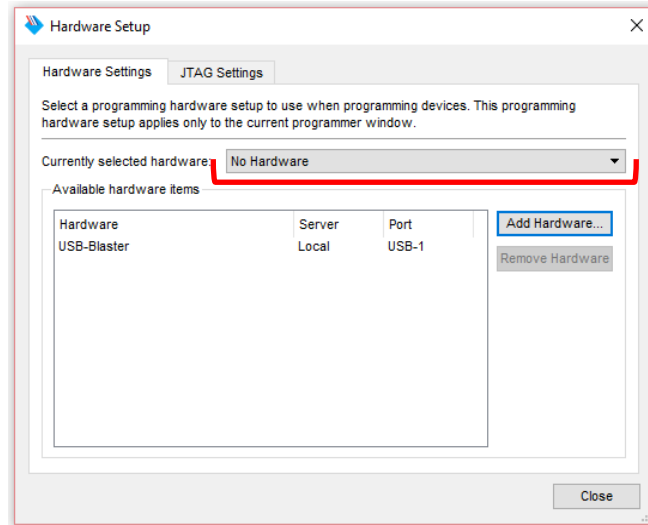
You will not need to create a project to program the device. You will just need to open the Quartus programming tool, select the '.pof', and program the device as normal. To do this, you must first open the programming tool.



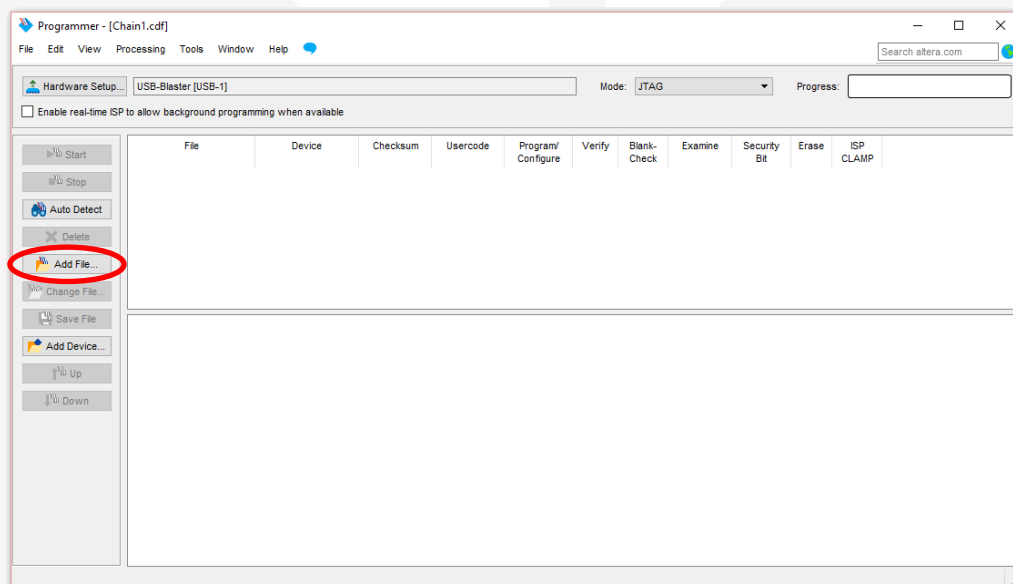
There are two ways to do this, both are marked in the figure above. The first way is to press the “Programmer” button (1). The second way is to press the Tool dropdown (2) then select “Programmer” about half way down the menu. Both will open the same tool. Once the tool is open, it should look like the figure below.



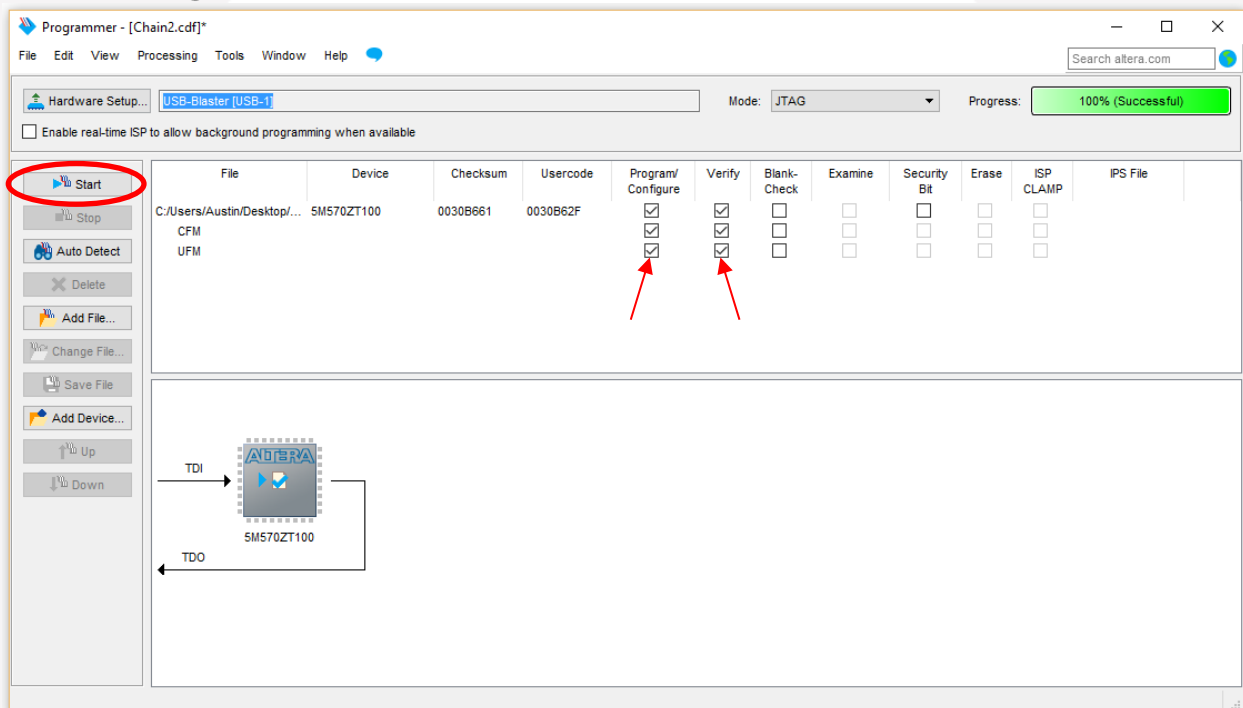
You will need to have your Altera USB Blaster connected to your computer. To connect it to the programmer, press the “Hardware Setup...” button circled in the figure above. You will now need to select the USB blaster as the hardware you wish to use. Use the “Currently selected hardware” pull-down menu marked in the figure below and select the USB-Blaster. In this example, the USB-Blaster is followed by “[USB-1]”. This does not make a difference.



Once selected, hit the close button. The Programmer window should now look similar to the one below. The next step is to select the '.pof' file you wish to program onto the CPLD. To do this, click the “Add File...” button marked in the figure below. Navigate to the 'flashProgrammer.pof' file you downloaded earlier, and press open.



When you select the '.pof' file, the Programmer window will automatically start filling itself with the proper information. Double check the device column to make sure it reads "5M570ZT100". If it reads a different device, then you do not have the correct file. The right half to the window will now have some new options. We are interested in "Program/Configure" and "Verify". "Program/Configure" will write the '.pof' file to the CPLD. "Verify" will read the CPLD and compare the program is reads on there to make sure it matches the '.pof' we are trying to program. Make sure these two columns are checked, as show in the figure below. If they are, just press the "Start" button to Program.



If everything worked correctly, the "Progress" bar in the top right should be full, green, and show "Successful" inside the bar. And that's it. Now your CPLD is set up to interface with the Out of the Box Flash Programmer.