

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

Flash Programmer Hardware Setup

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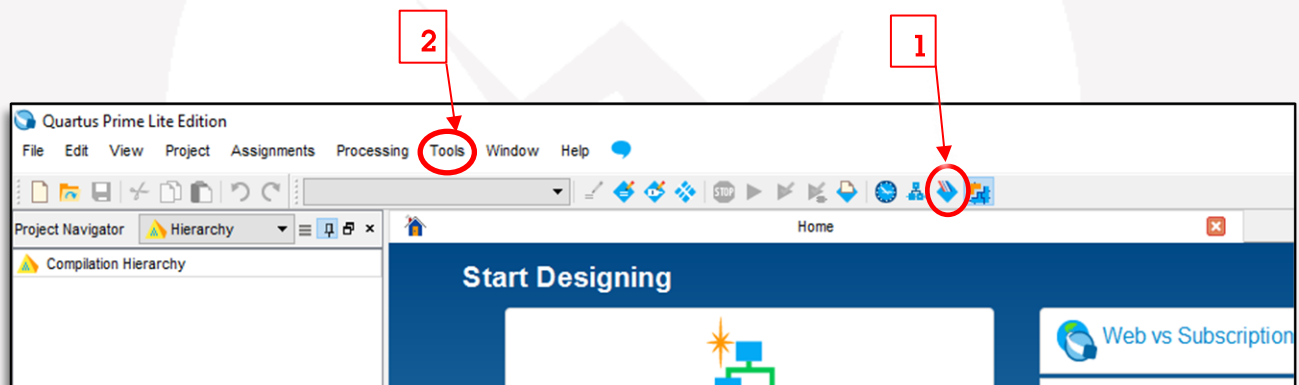
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Overview

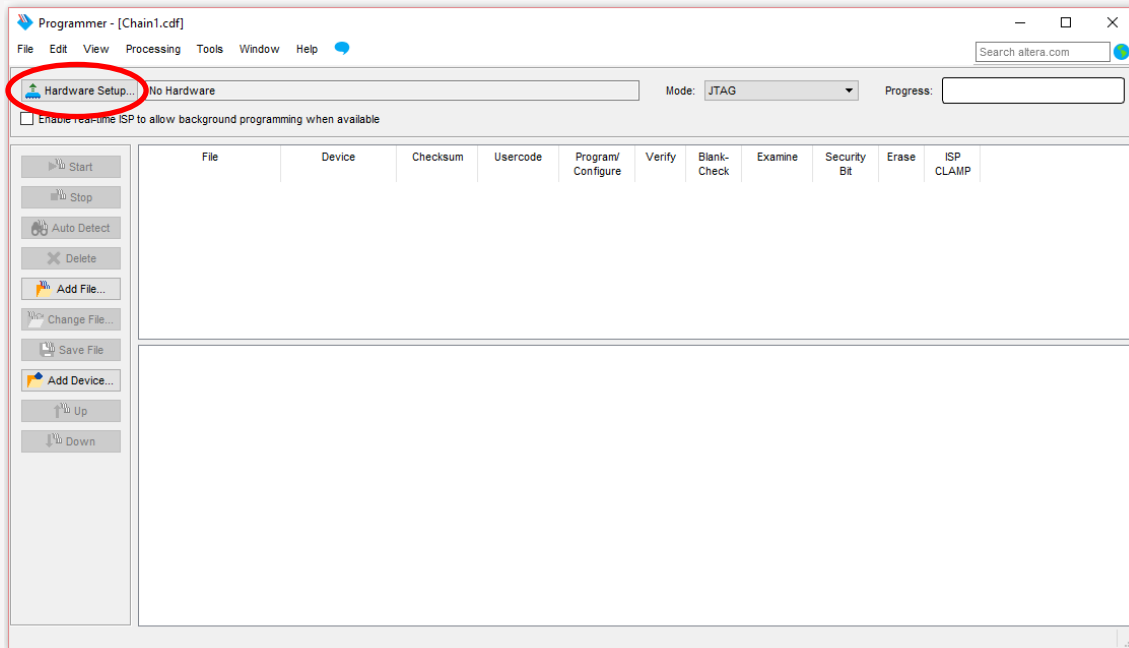
In order for the Out of the Box MAX V Development Board to interface with the Flash Programmer PC program, the FlashProgrammer.pof file must be loaded onto the CPLD using Quartus Prime. Quartus Prime version 15.0 or newer is required for this tutorial. The FlashProgrammer.pof file can be downloaded from the Digital Logic and Computer Systems website.

Step 1: Locate the Quartus Programmer

There is no need to create a project to program a device. Simply open the Quartus programmer via either the shortcut button  displayed as item 1 in the below figure, or locate it through the “Tools” menu displayed as item 2 in the below figure

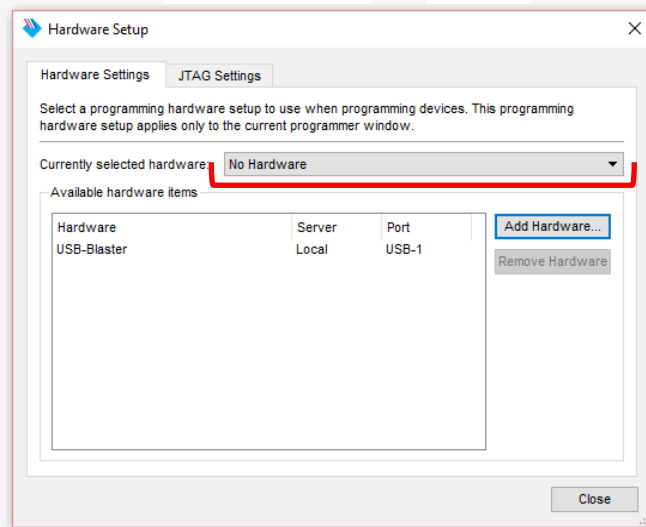


Step 2: Hardware Setup



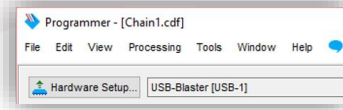
The Programmer window will be displayed as below

To continue with this tutorial an Altera or Terasic USB Blaster must be connected to the PC. Press the “Hardware Setup...” button circled in the figure above. Select the USB blaster. Use the “Currently selected hardware” pull-down menu marked in the figure below and select the USB-Blaster. Exit the “Hardware Setup” window by selecting the “Close” button.

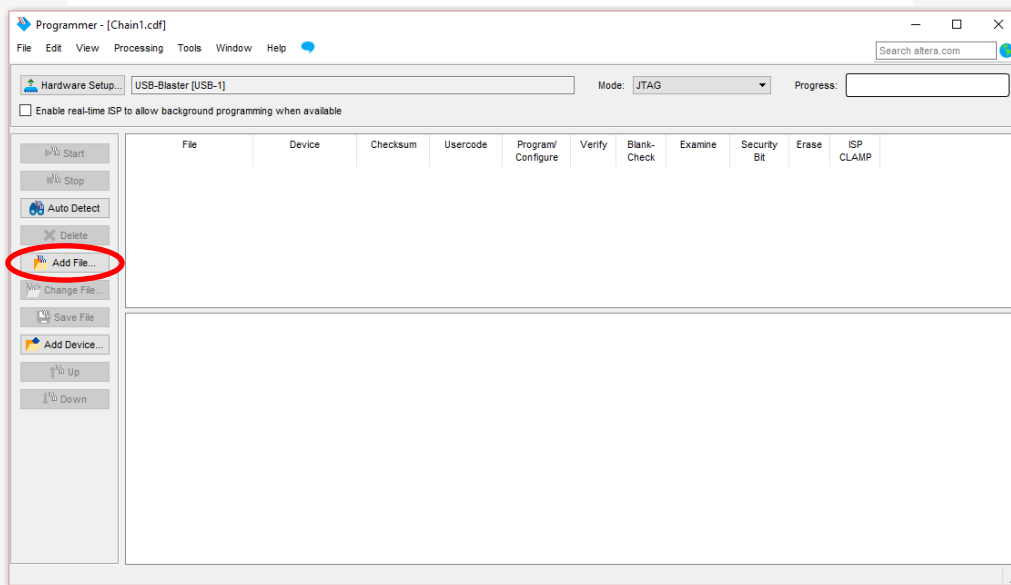


Step 3: Programming the Device

After completion of the last step The Programmer will display “USB-Blaster” beside the “Hardware Setup...” button.



Use the “Add File” button shown below and locate the “FlashProgrammer.pof” file wherever it was saved to the computer.



Once the “FlashProgrammer.pof” has been added, check the device column to make sure it reads “5M570ZT100”. Click on the boxes under “Program/Configure”, as well as “Verify” as shown below. Ensure no other boxes than displayed are checked. When ready press the “Start” button marked below. The progress bar will indicate the status of the CPLD as it is programmed

