

Quartus Prime Setup

Version (generic)

Last updated 3/7/20

Quartus Prime Setup

WARNING – WARNING – WARNING

Since our suppliers update their software on a regular basis – some of the screen captures and revision numbers may be different when you install the software

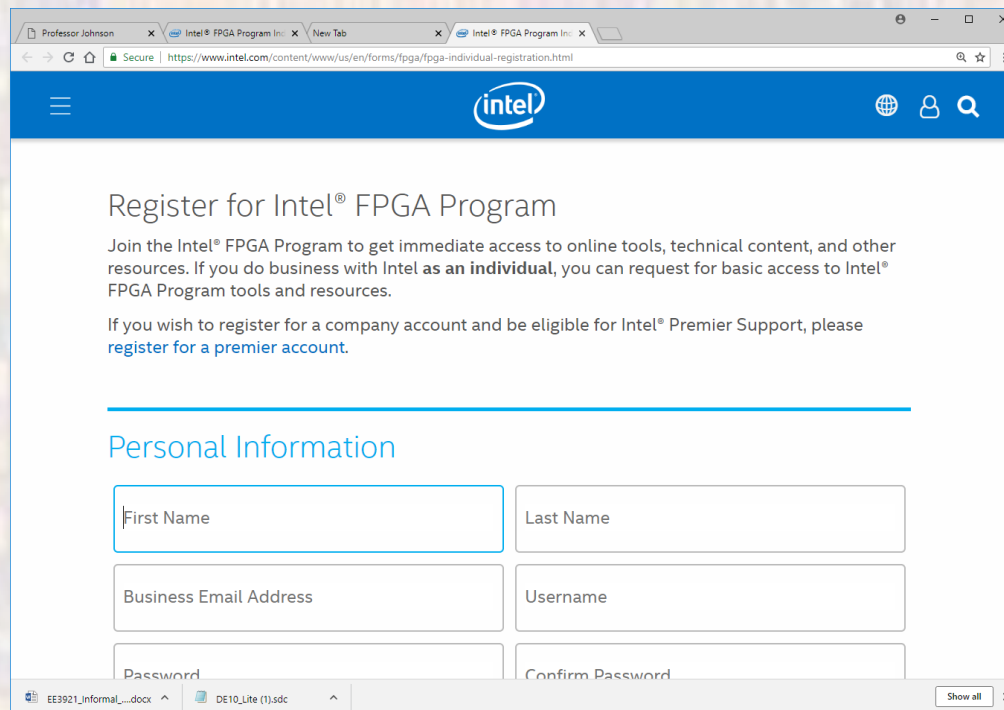
WARNING – WARNING – WARNING

Quartus Prime Setup

- Quartus Prime – Setup
 - The following slides walk through the process of setting up the Quartus Prime software
 - This is the development platform for the Intel FPGAs
 - Please note – this process takes quite a while (>2 hours) depending on your internet connection.

Quartus Prime Setup

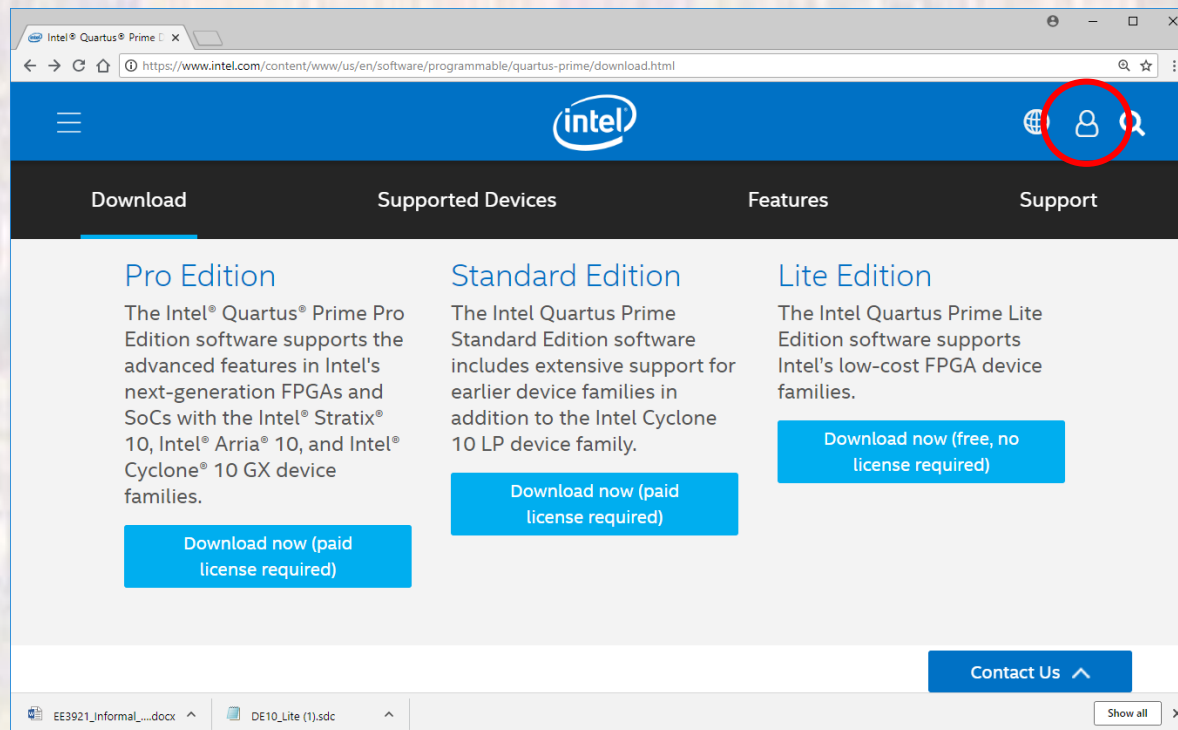
- Quartus Prime – Setup
 - If you do not already have an INTEL FPGA account – create one.
 - <https://www.intel.com/content/www/us/en/forms/fpga/fpga-individual-registration.html>
 - Use your university email address



The screenshot shows a web browser window displaying the Intel FPGA Program registration page. The page title is "Register for Intel® FPGA Program". The main heading is "Register for Intel® FPGA Program". Below the heading, there is a paragraph: "Join the Intel® FPGA Program to get immediate access to online tools, technical content, and other resources. If you do business with Intel as an individual, you can request for basic access to Intel® FPGA Program tools and resources." Below this, there is another paragraph: "If you wish to register for a company account and be eligible for Intel® Premier Support, please register for a premier account." The form is titled "Personal Information" and contains several input fields: "First Name", "Last Name", "Business Email Address", "Username", "Password", and "Confirm Password". The browser's address bar shows the URL: "https://www.intel.com/content/www/us/en/forms/fpga/fpga-individual-registration.html". The browser's taskbar at the bottom shows several open files, including "EE3921_Informal_L...docx" and "DE10_Lite (1).sdc".

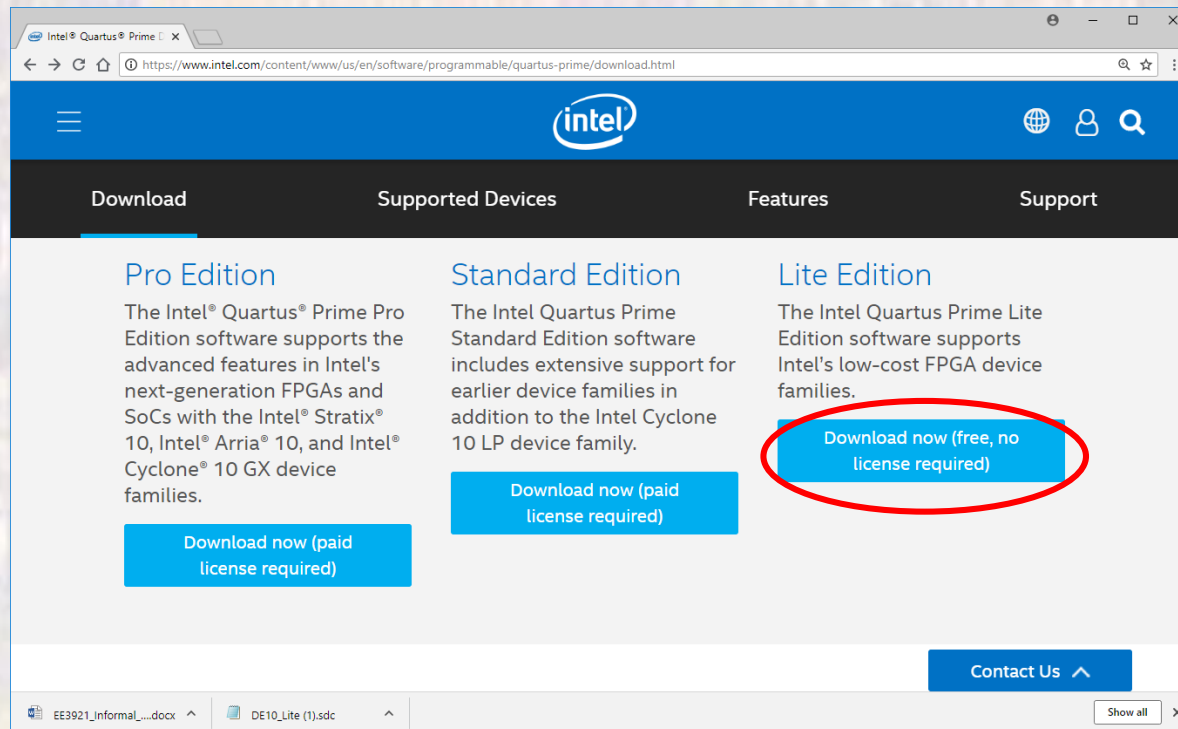
Quartus Prime Setup

- Quartus Prime – Setup
 - Browse to the Intel Software Support site
 - <https://www.intel.com/content/www/us/en/software/programmable/quartus-prime/download.html>
 - Select Sign-in in the upper right corner



Quartus Prime Setup

- Quartus Prime – Setup
 - Browse to the Intel Software Support site
 - <https://www.intel.com/content/www/us/en/software/programmable/quartus-prime/download.html>
 - Select the **Lite Edition** download



Quartus Prime Setup

- Quartus Prime Setup
 - Select the **Lite** Edition
 - Select the **most recent** version available
 - Select “Windows” or “Linux” as appropriate

The screenshot shows a web browser window at the URL `fpgasoftware.intel.com/?edition=lite`. The page is titled "Download Center for FPGAs" and features a navigation menu with options like "Products", "Solutions", and "Support". The main content area is for the "Quartus Prime Lite Edition" software. It includes a sidebar with categories such as "Design Software", "Embedded Software", "Archives", "Licensing", "Programming Software", "Drivers", "Board System Design", "Board Layout and Test", and "Legacy Software". The main section displays the "Quartus Prime Lite Edition" with its release date (September, 2019) and latest release (v19.1). There are dropdown menus for "Select edition:" (set to "Lite") and "Select release:" (set to "19.1"). Below this, there are radio buttons for "Operating System" with "Windows" selected. A yellow information box contains several key points: a green checkmark indicating functional and security updates for version 19.1; a green checkmark stating that a patch must be downloaded and installed on Windows; a green checkmark noting changes in OS and IP support; and a green checkmark listing supported device families (Arria II, Cyclone 10 LP, Cyclone IV, Cyclone V, MAX II, MAX V, and MAX 10 FPGA) with a link to "More". At the bottom, there are tabs for "Combined Files", "Individual Files", and "Additional Software". A "Download and install instructions:" section provides links to "More", "Read Intel FPGA Software v19.1 Installation FAQ", and "Quick Start Guide". The browser's taskbar at the bottom shows a task for "QuartusLiteSetup-....exe" with a size of 0.1/1.5 GB and 25 mins left.




Quartus Prime Setup

- Quartus Prime Setup
 - Download the **Quartus Prime** software, the **Model-Sim** software and the **MAX 10** support package from the **Individual Files Tab**

The screenshot shows the Intel FPGA Software Download Center website. The browser address bar displays 'fpgasoftware.intel.com/?edition=lite'. The page has a blue header with the Intel logo and navigation links for 'Products', 'Solutions', and 'Support'. Below the header, there are three tabs: 'Combined Files', 'Individual Files', and 'Additional Software'. The 'Individual Files' tab is selected. The main content area is divided into sections. The first section is titled 'Download and install instructions:' and contains links for 'More', 'Read Intel FPGA Software v19.1 Installation FAQ', and 'Quick Start Guide'. Below this, there are two main download items, each with a blue circular download icon circled in red: 'Quartus Prime Lite Edition (Free)' and 'ModelSim-Intel FPGA Edition (includes Starter Edition)'. The 'Quartus Prime Lite Edition' item lists the size as 1.5 GB and provides the MD5 hash: C64B01C9F5DE3E14724FOCA046E56A3E. The 'ModelSim-Intel FPGA Edition' item lists the size as 968.2 MB and provides the MD5 hash: C094C7B72139945F77D93DB0F750594C. Below these, there is a 'Devices' section with the instruction: 'You must install device support for at least one device family to use the Quartus Prime software.' This section lists several device support packages, each with a blue circular download icon circled in red: 'Arria II device support. (536.5MB)', 'Cyclone IV device support. (516.3MB)', 'Cyclone 10 LP device support. (293.5MB)', 'Cyclone V device support. (1434.3MB)', 'MAX II, MAX V device support. (13.1MB)', and 'MAX 10 FPGA device support. (343.3MB)'. The 'MAX 10 FPGA device support' item lists the size as 332.8 MB and provides the MD5 hash: C5D8FB781E2816D9433A0B64240233F5. At the bottom of the browser window, a taskbar shows a file named 'QuartusLiteSetup-....exe' with a size of 0.1/1.5 GB and a time of 24 mins left. A 'Show all' button is visible in the bottom right corner of the browser window.

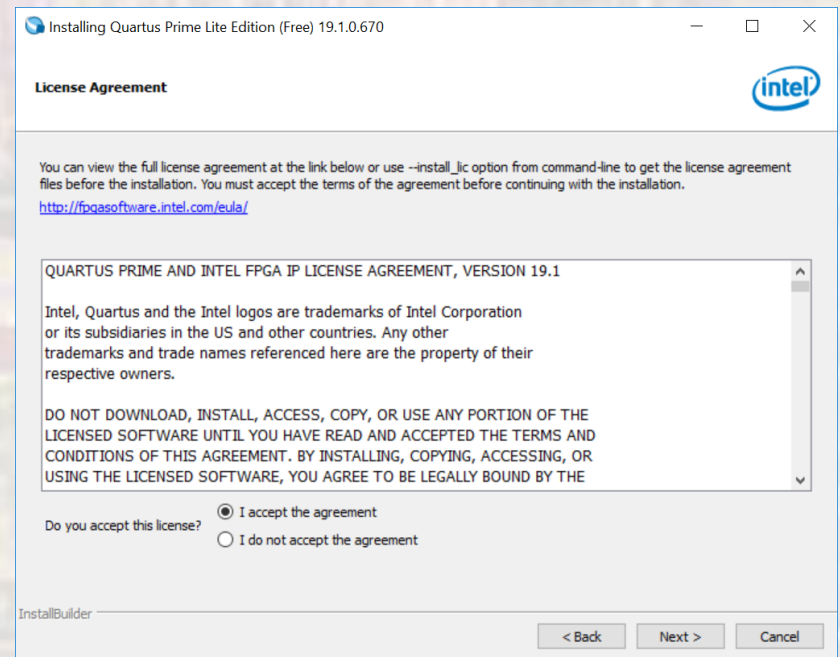
Quartus Prime Setup

- Quartus Prime – Setup
 - Go to your download location
 - All three downloads should be visible
 - Select [QuartusLiteSetup-xx.x.x.xxx-windows.exe](#)
 - Where **xx.x.x.xxx** corresponds to the version you downloaded
 - The other 2 files are automatically installed by [QuartusLiteSetup](#)

 max10-19.1.0.670.qdz	3/7/2020 4:18 PM	QDZ File	340,745 KB
 ModelSimSetup-19.1.0.670-windows...	3/7/2020 4:16 PM	Application	991,415 KB
 QuartusLiteSetup-19.1.0.670-windows...	3/7/2020 4:07 PM	Application	1,599,126 ...

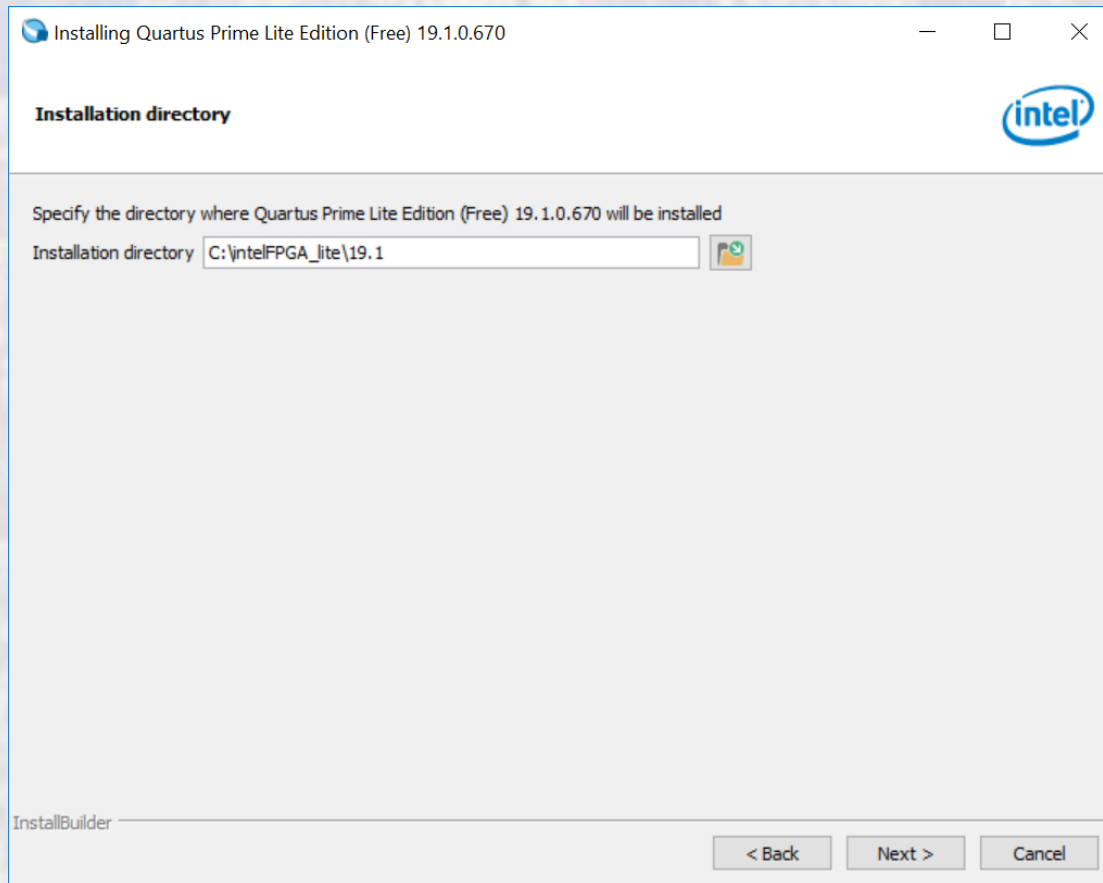
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - Select “Next”
 - Accept the agreement



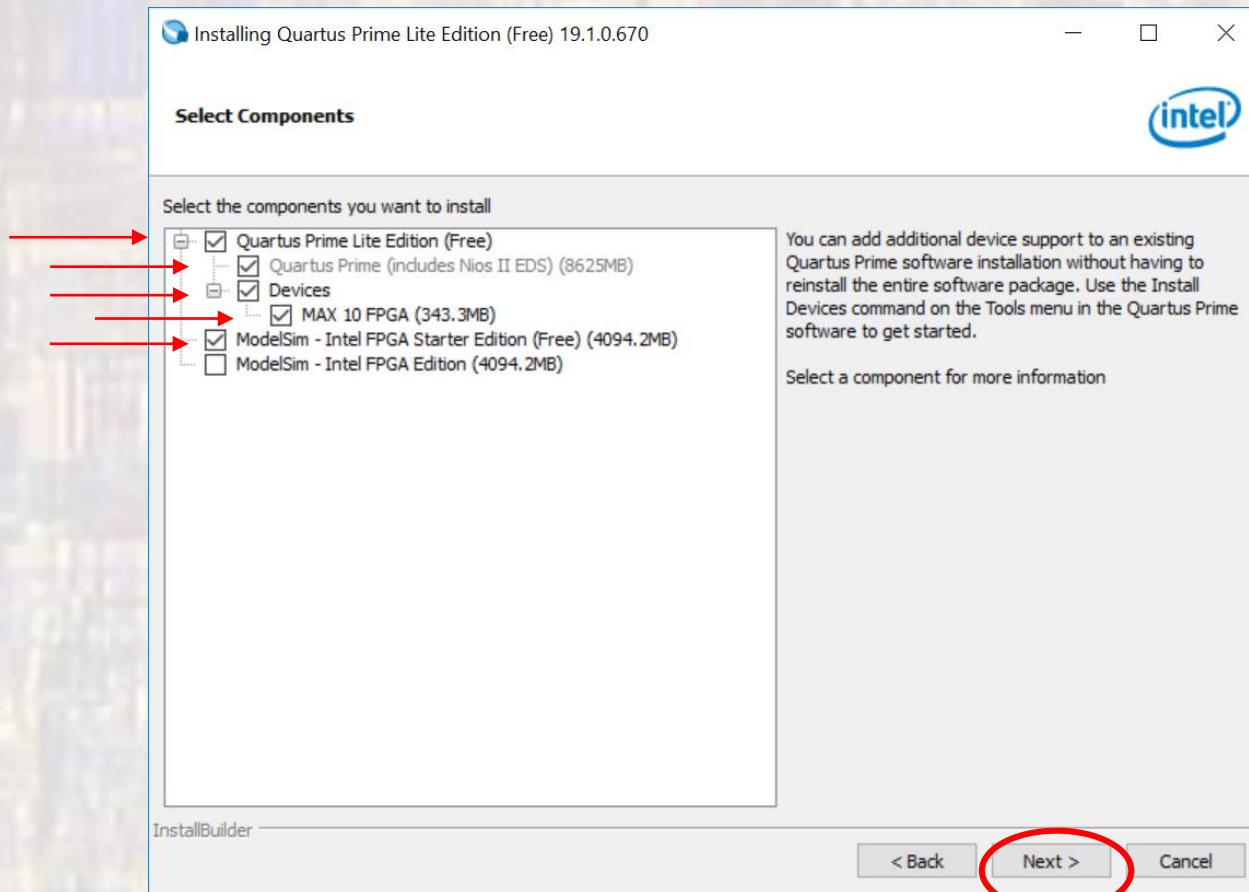
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - Keep the default installation directory



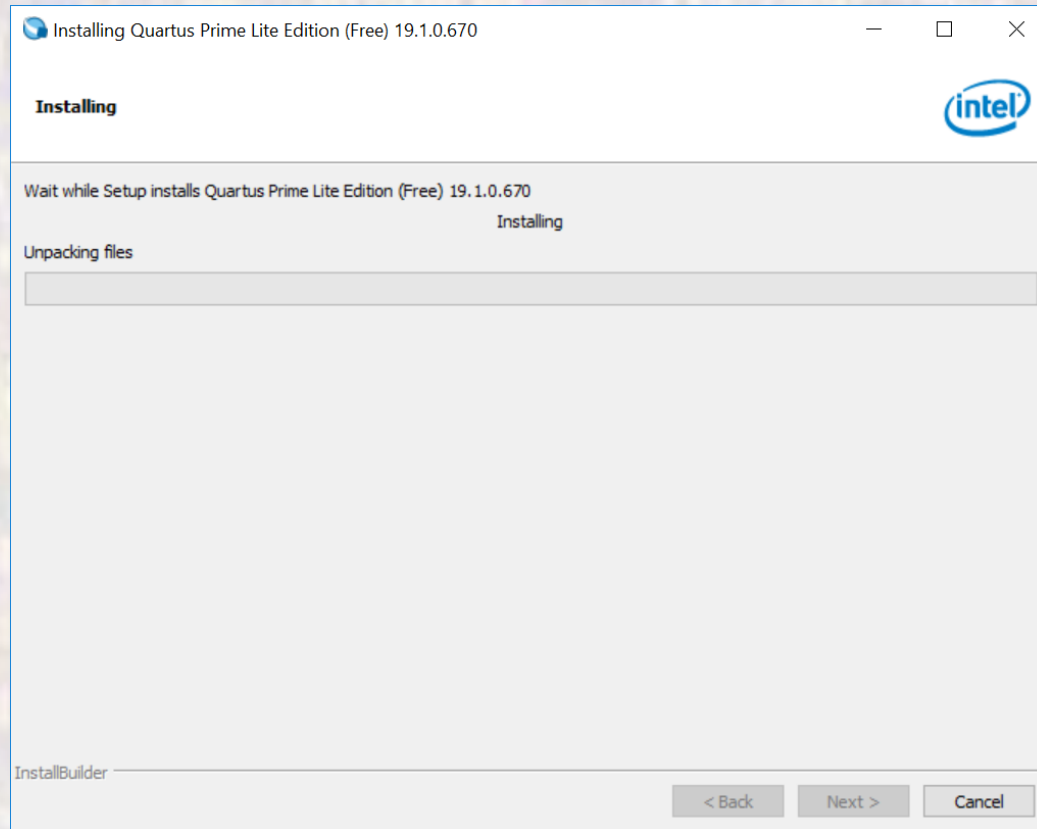
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - Make the following selections



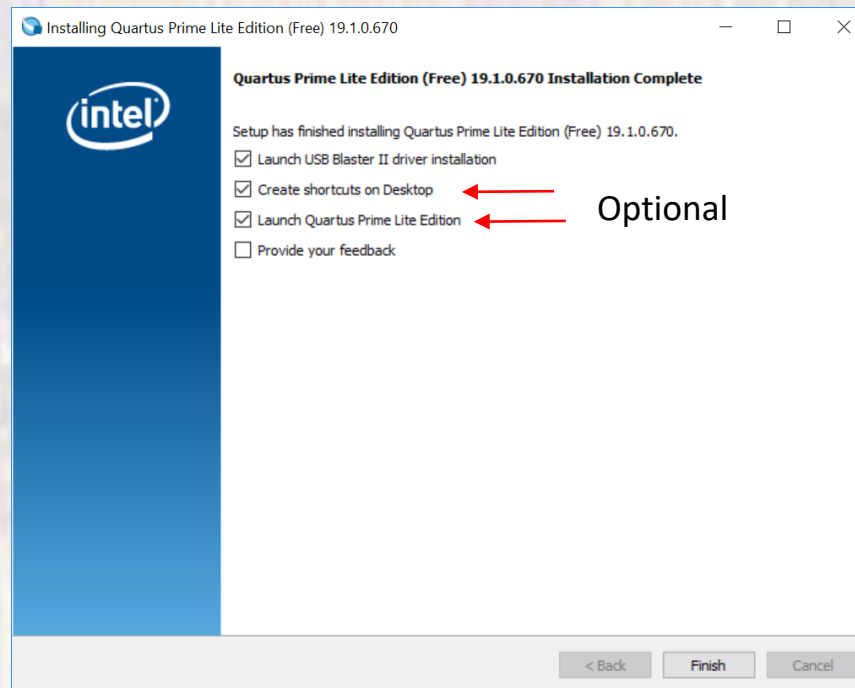
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - This may take a while so be patient



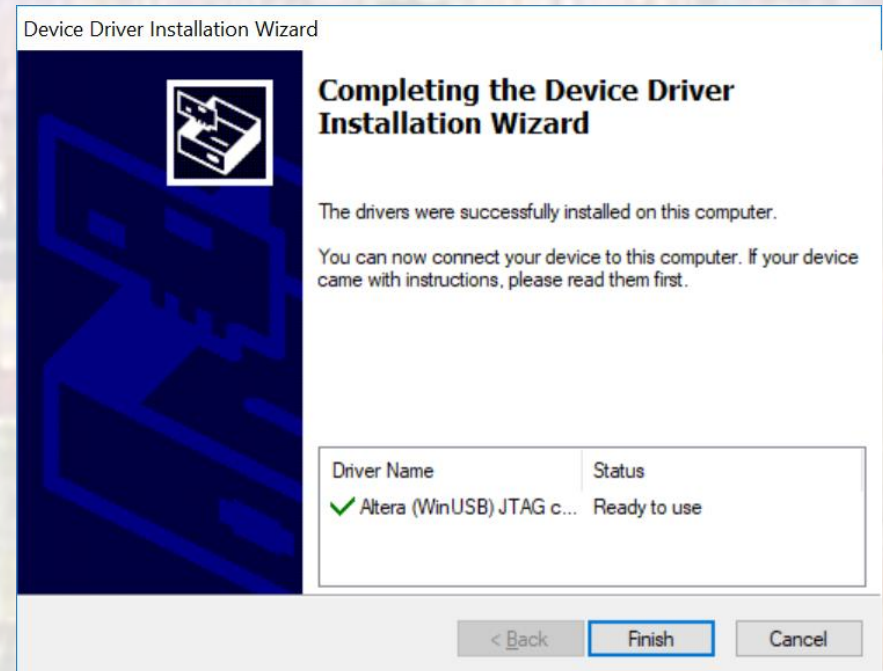
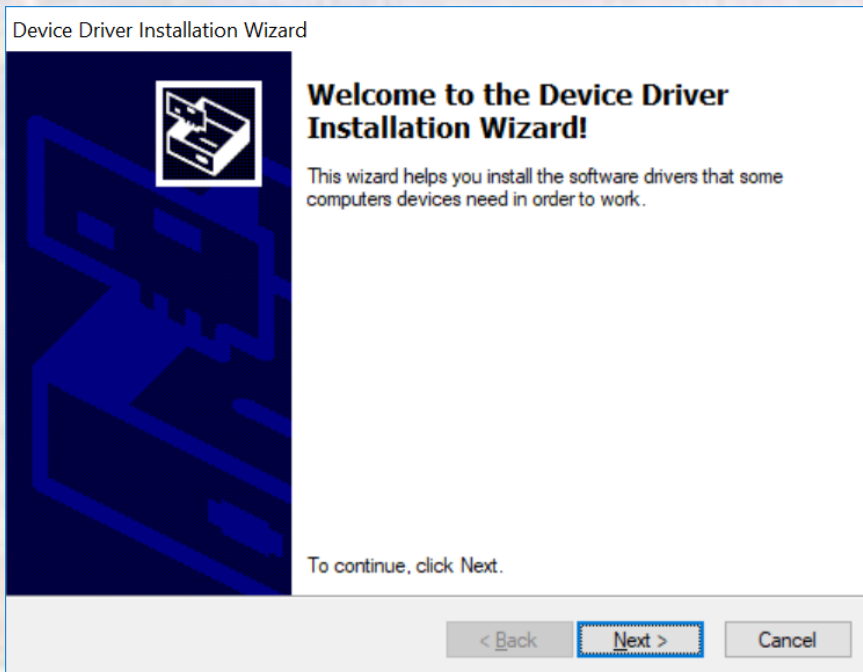
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - Launch the USB Blaster II driver installation
 - Create a desktop shortcut if you wish
 - Check the “Provide Feedback” box if you wish



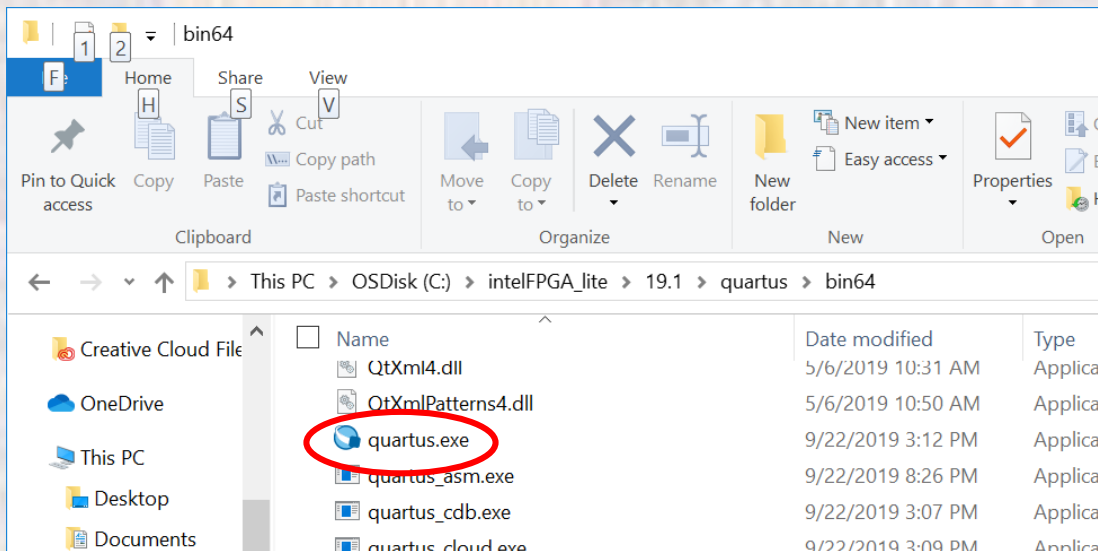
Quartus Prime Setup

- Quartus Prime – Setup
 - Setup Wizard
 - USB Blaster II driver installation



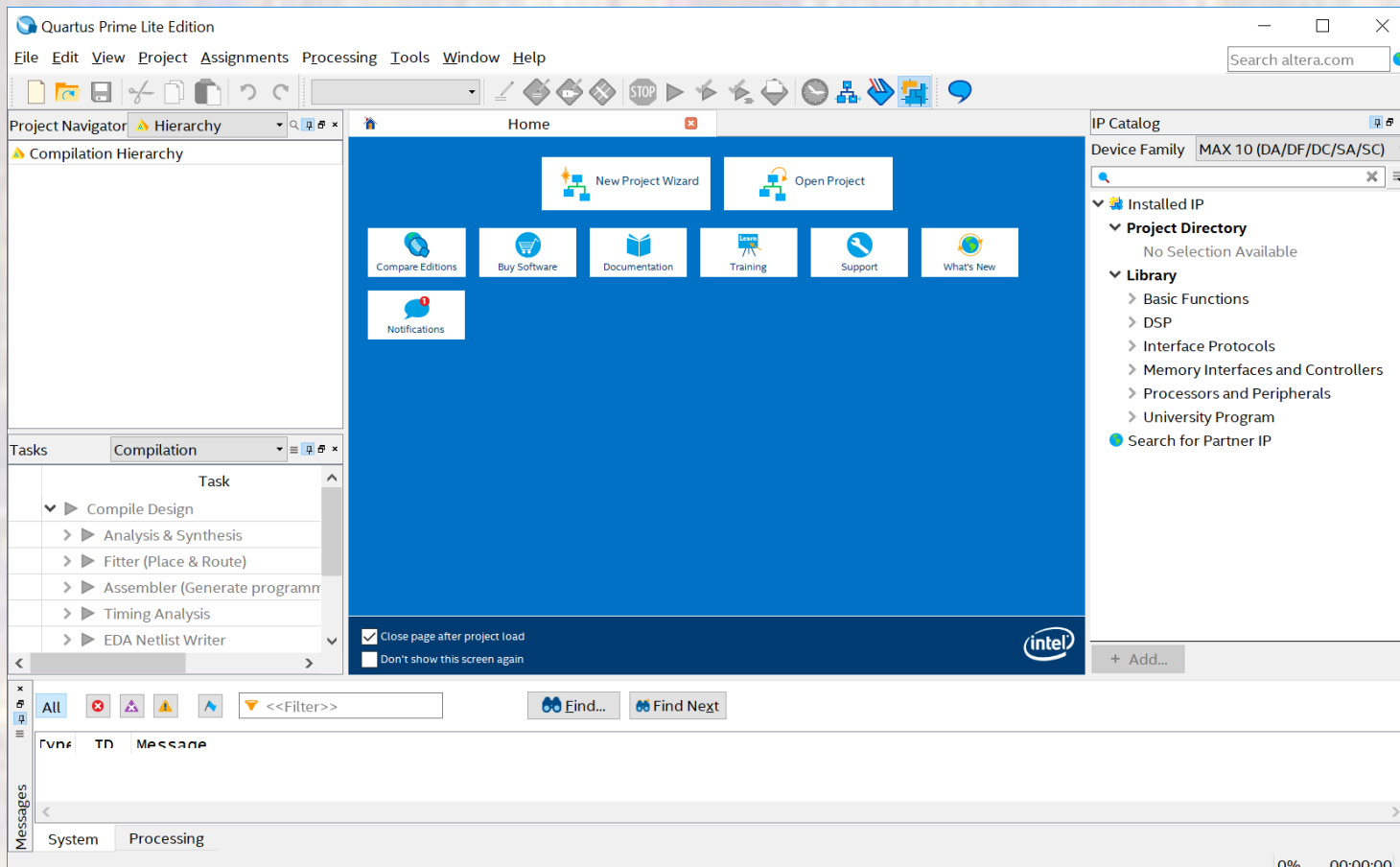
Quartus Prime Setup

- Quartus Prime – Startup
 - Start Quartus
 - Use your desktop app
or
 - Traverse to *install_dir/intelFPGA_lite/xx.x/quartus/bin64* (assuming your machine is 64 bit)
 - Where *xx.x* corresponds to your version
 - Select the *quartus* application file



Quartus Prime Setup

- Quartus Prime – Startup
 - Start Quartus
 - You should now see the following window



Quartus Prime Setup

- Quartus Prime – Startup

Congratulations !!!!