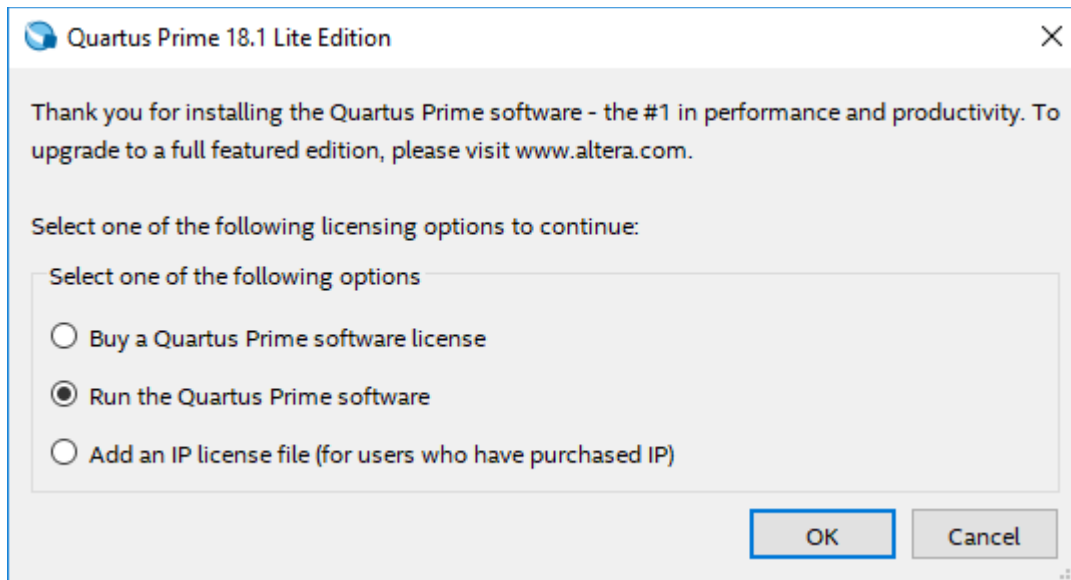


Quartus Installation Instructions (Last Updated for Quartus v18.1)

The student version of the Quartus software can be obtained directly from the Altera web site (www.altera.com). The process for successfully installing Quartus is performed in the following manner:

1. Go to <http://dl.altera.com/?edition=lite>. Note that you need the Quartus **Prime Lite Edition**, v18.1, i.e., select the `Lite` edition and release `18.1`.
2. If you are not already signed-in, you will eventually be asked to log in or to make an account. Select `LOG IN` at the top right of the page.
 - a) If creating a new account, after verifying your account repeat step 1. (If the download is blocked by your firewall or your browser settings, you will be taken back to the screen in step 2. Remove the block and repeat the previous step. I suggest that you “always allow pop-ups from this site.”)
3. You only need to download Quartus Prime Lite Edition (Quartus Prime and ModelSim), Cyclone V device support, MAX II, MAX V device support, and MAX X device support.
 - a) Select what you need by selecting `Individual Files`.
 - b) If you have not already done so, you will be asked to `Sign In` or `Register` at this point. See step 2 above.
 - c) Select “`Download Selected Files`.” If prompted to do so, allow the installation of the “Akamai DML3 Download Manager.” The total download required files is about 4 GB. You may have to first download and install the installer. Depending on your connection speed, downloading these files may take anywhere from 4 minutes (which it took in my office) to an hour.
4. If the download is successful, close the download window and then go back to the Altera window. (This Altera window will now say something like “Download complete! ...”)
5. After the Quartus software has finished downloading, run `QuartusLiteSetup-18.1.0.625-windows.exe` installation file to install the Quartus software. Note that the numbers after the 18 might change as new versions become available. (Do **NOT** run `ModelSimSetup-18.1.0.625-windows.exe`; this file will **automatically** run as part of the previous setup file.) The default location of Quartus **must NOT have any special or special characters**. I suggest that you use all the default responses. The installation may take **OVER AN HOUR** (although it took me less than 25 minutes).
6. De-select `Launch USB Blaster II driver installation`.
7. Select `Finish`.
8. Follow the instructions to install the device driver. Select `Finish`.
9. When a `Quartus Prime 18.1 Lite Edition` window appears (see the top of the next page), select the second option (as shown), i.e., `Run the Quartus Prime software` and then select `OK`.
10. Download one of the files below, depending on your operating system. These will configure Quartus to utilize the OOTB CPLD programmer to program your CPLD.
 - For 64-bit Windows computers, download [jtag_hw_mbftdi_blaster64.dll](#) and then move or copy it to the folder `C:\intelFPGA_lite\18.1\quartus\bin64\`.
 - For 32-bit Windows computers, download [jtag_hw_mbftdi_blasterXX.dll](#) and then move or copy it to the folder `C:\intelFPGA_lite\18.1\quartus\??`.
 - For Linux computers, download [libjtag_hw_mbftdi-blaster.so.txt](#) and then remove the `.txt` from the file name and copy it the folder `??`.

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11. Download and install the FTDI USB [device driver](#) to allow your USB port to communicate over JTAG. The main driver page can be found [here](#).
12. When the installation is affectively done, run the Quartus software. Either select your desktop icon Select the second option, i.e., Run the Quartus Prime software. You can then close Quartus.
13. Open Quartus Prime 18.1 Lite Edition, which should be on your desktop. The icon should look like the image to the right. If you used default settings, Quartus should also be in the Program Menu under Intel FPGA 18.1.0.625 Lite Edition | Quartus (Quartus Prime 18.1).



Note for Mac computer users: If you have a Mac (i.e., a Macintosh computer from Apple), you will need to install a windows virtual machine in order to install and run Quartus. We suggest that you install *Boot Camp* (free and the best); *Parallels* (not free) or possibly *VMware* (free for students) may also work. UF offers free copies of Windows 10 Software. We do **not** recommend *Virtual Box*. (Note: My best students use *Boot Camp*!) If you are having problems installing this software, the UF help desk (www.helpdesk.ufl.edu and 352-392-HELP [4357]); you can visit them at the HUB Mon-Thur from 7:30am-10pm, Fri from 7:30am-5:00, and Sat-Sun from noon-6:00pm.