

Quartus Windows installation

Quartus Prime Lite 20.1

Os: Windows 10

- Go to the following link and create a free account.
- [https://
www.intel.com/content/www/us/en/form
s/basic-intel-registration.html](https://www.intel.com/content/www/us/en/forms/basic-intel-registration.html)

Register for Basic Intel® Account

Sign up for a Basic Intel® Account to be able to login to My Intel and start your journey with Intel. You will still need to register for specific programs in order to gain additional privileges.

Personal Information

First Name

Last Name

Business Email Address

Username

Password

Confirm Password

Country/Region

Job Function

Country/Region Code

Phone

Extension (optional)

- Then go to the following link and download the setup file according to your OS.
- Ensure that Windows operating system is selected.
- Ensure that Lite edition is selected and release is 20.1
- Make sure to download the combined file
- <https://fpgasoftware.intel.com/?edition=lite&platform=windows>

Download Center for FPGAs

fgasoftware.intel.com/?edition=lite&platform=windows

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Home > Downloads > Quartus Prime Lite Edition

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Board Layout and Test

Legacy Software

Quartus Prime Lite Edition

Release date: June, 2020
Latest Release: v20.1

Select edition: Lite
Select release: 20.1

Operating System Windows Linux

Intel® Quartus® Prime

Design Software

✔ The Quartus Prime Lite Edition Design Software, Version 20.1 includes functional and security updates. Users should keep their software up-to-date and follow the [technical recommendations](#) to help improve security. Additional security updates are planned and will be provided as they become available. Users should promptly install the latest version upon release.

✔ The Quartus Prime Lite Edition Design Software, Version 20.1 is subject to removal from the web when support for all devices in this release are available in a newer version, or all devices supported by this version are obsolete. If you would like to receive customer notifications by e-mail, please subscribe to our [subscribe to our customer notification mailing list](#).

Quartus_installati....pptx

Activate Windows
Go to Settings to activate Windows.
Show all

Download Center for FPGAs

fpgasoftware.intel.com/?edition=lite&platform=windows

10 LP, Cyclone IV, Cyclone V, MAX II, MAX V, and MAX 10 FPGA. [More](#)

Combined FilesIndividual FilesAdditional Software

Download and install instructions: [More](#)
[Read Intel FPGA Software v20.1 Installation FAQ](#)
[Quick Start Guide](#)

The **Combined Files** download for the Quartus Prime Design Software includes a number of additional software components. A list of files included in each download can be viewed in the tool tip (***What's Included?***) to the right of the description. The **Complete Download** includes all available device families. To achieve a smaller download and installation footprint, you can select device support in the **Multiple File Download** section, or select components in the **Individual Files** and **Additional Software** tabs.

Quartus Prime Lite Edition Software (Device support included) [What's Included?](#)

Quartus-lite-20.1.0.711-windows.tar

Size: 5.9 GB MD5: C0C68444E85C9A1DBAF2F24A76F62680

** Nios II EDS on Windows requires Ubuntu 18.04 LTS on Windows Subsystem for Linux (WSL), which requires a manual installation.

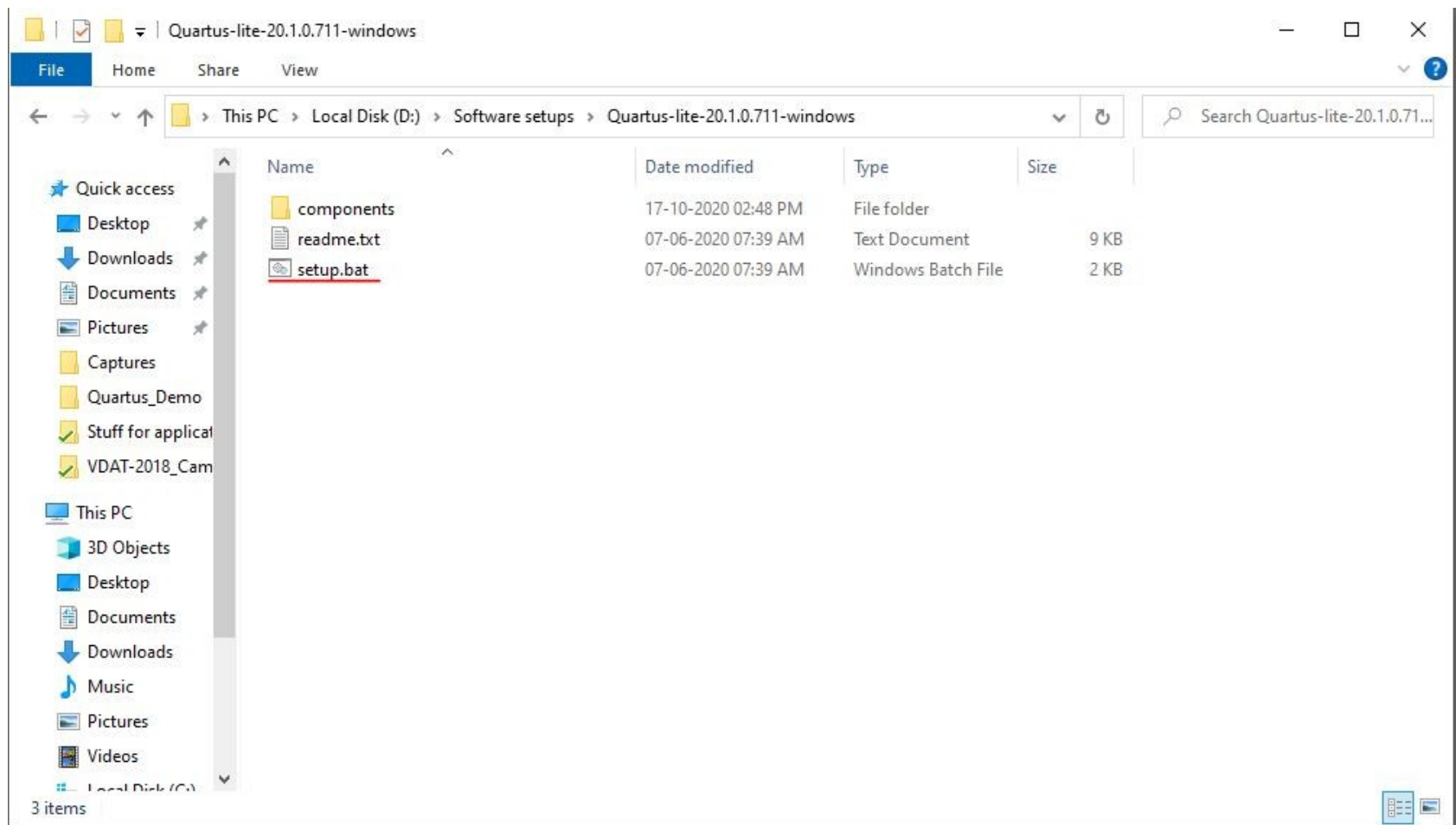
** Nios II EDS requires you to install an Eclipse IDE manually.

Note: The Quartus Prime software is a full-featured EDA product. Depending on your download speed, download times may be lengthy.

Quartus_installati....pptx

Activate Windows
Go to Settings to activate Windows.
[Show all](#)

- If asked, login in the next page using the account which you have created in slide 2.
- After the file has downloaded then extract and go inside the folder.
- Run setup.bat



Installing Quartus Prime Lite Edition (Free) 20.1.0.711



Setup - Quartus Prime Lite Edition (Free) 20.1.0.711

Welcome to the Quartus Prime Lite Edition (Free) 20.1.0.711 Setup Wizard.

The Quartus Prime software requires that your system have sufficient physical RAM to compile designs targeting specific devices. You can check the "Memory Recommendations" section in the "Quartus Prime Software and Device Support Release Notes" (<https://www.intel.com/content/www/us/en/programmable/documentation/lit-rn.html>) for detailed memory requirements for a particular device.

For more information about Intel FPGA software, go to <https://www.intel.com/content/www/us/en/products/programmable.html>.

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Next >

Cancel

License Agreement



You can view the full license agreement at the link below or use --install_lic option from command-line to get the license agreement files before the installation. You must accept the terms of the agreement before continuing with the installation.

<http://fpgasoftware.intel.com/eula/>

QUARTUS PRIME AND INTEL FPGA IP LICENSE AGREEMENT, VERSION 20.1

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Installing Quartus Prime Lite Edition (Free) 20.1.0.711



Installation directory



Specify the directory where Quartus Prime Lite Edition (Free) 20.1.0.711 will be installed

Installation directory



InstallBuilder

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Cancel

- Ensure that everything is checked as shown in the screen shot in the next slide.
- Under devices anything can be selected but at least one device must be selected.

Select Components



Select the components you want to install

- ☒ Quartus Prime Lite Edition (Free)
 - ☒ Quartus Prime (includes Nios II EDS) (9313MB)
 - ☒ Quartus Prime Help (508.4MB)
 - ☒ Devices
 - ☐ Arria II (536.5MB)
 - ☐ Cyclone IV (516.3MB)
 - ☐ Cyclone 10 LP (293.5MB)
 - ☐ Cyclone V (1434.3MB)
 - ☒ MAX II/V (13.1MB)
 - ☐ MAX 10 FPGA (360.3MB)
- ☒ ModelSim - Intel FPGA Starter Edition (Free) (4318.8MB)
- ☐ ModelSim - Intel FPGA Edition (4318.8MB)

Installs MAX 10 FPGA device support. (360.3MB)

Ready to Install



Summary:

Installation directory: C:\intelFPGA_lite\20.1
Required disk space: 17297 MB
Available disk space: 25801 MB

Installing Quartus Prime Lite Edition (Free) 20.1.0.711



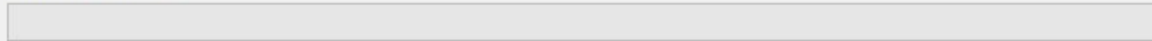
Installing



Wait while Setup installs Quartus Prime Lite Edition (Free) 20.1.0.711

Installing

Preparing to Install



InstallBuilder

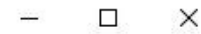
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Next >

Cancel

- Uncheck Launch USB Blaster and Provide your feedback.

Installing Quartus Prime Lite Edition (Free) 20.1.0.711



Quartus Prime Lite Edition (Free) 20.1.0.711 Installation Complete

Setup has finished installing Quartus Prime Lite Edition (Free) 20.1.0.711.

- ☐ Launch USB Blaster II driver installation
- ☒ Create shortcuts on Desktop
- ☒ Launch Quartus Prime Lite Edition
- ☐ Provide your feedback

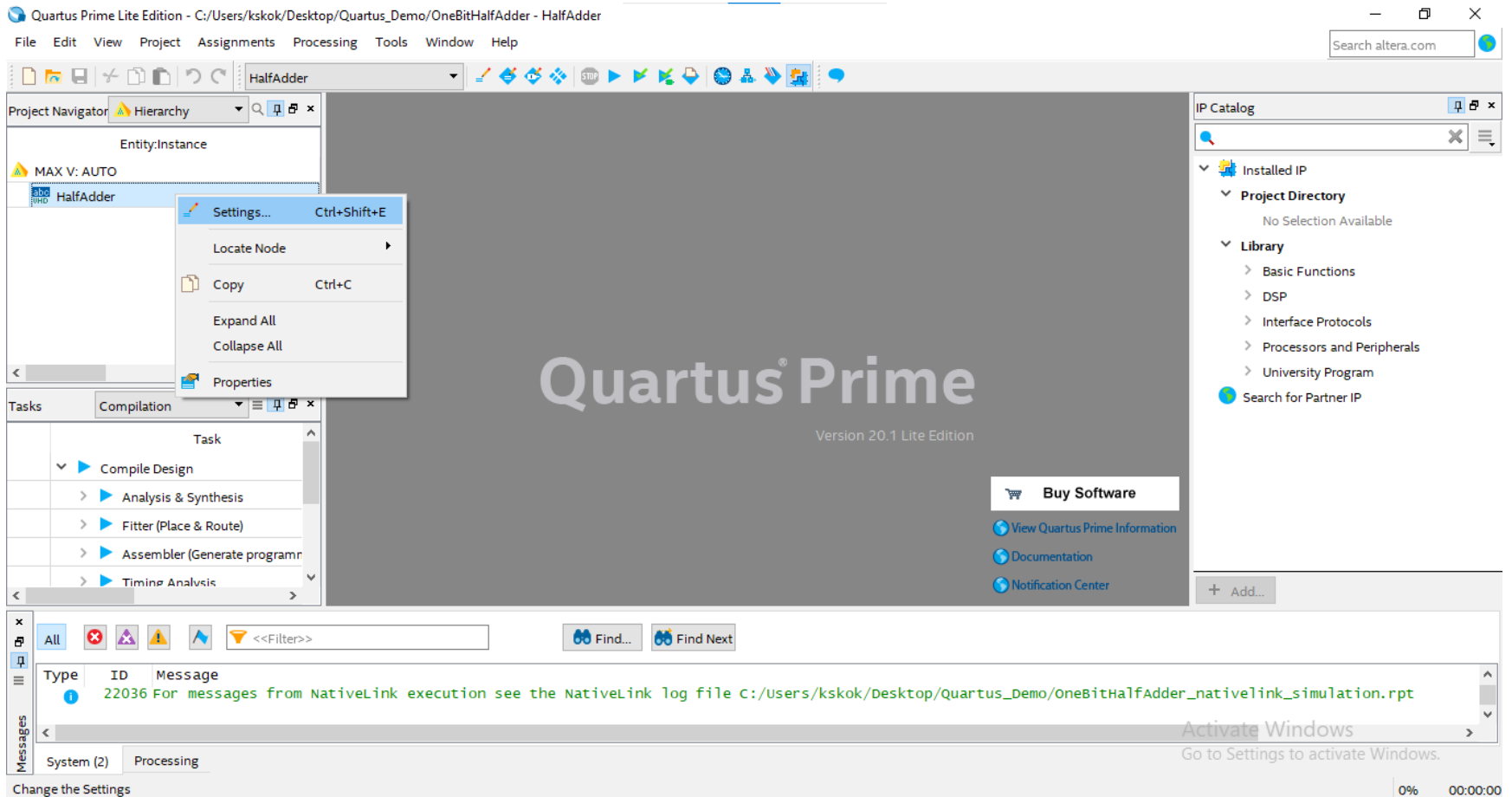
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Finish

Cancel

- In order for modelsim to work, perform the steps in the following slides.

Go to settings



- Go to simulation settings and ensure that Tool name is ModelSim-Altera and click ok.

Category:

Device/Board...

General

Files

Libraries

▼ IP Settings

IP Catalog Search Locations

Design Templates

▼ Operating Settings and Conditions

Voltage

Temperature

▼ Compilation Process Settings

Incremental Compilation

▼ EDA Tool Settings

Design Entry/Synthesis

Simulation

Board-Level

▼ Compiler Settings

VHDL Input

Verilog HDL Input

Default Parameters

Timing Analyzer

Assembler

Design Assistant

Signal Tap Logic Analyzer

Logic Analyzer Interface

Power Analyzer Settings

SSN Analyzer

Simulation

Specify options for generating output files for use with other EDA tools.

Tool name: ModelSim-Altera ▼

☐ Run gate-level simulation automatically after compilation

EDA Netlist Writer settings

Format for output netlist: VHDL ▼

Time scale: 100 us ▼

Output directory: simulation/modelsim ...

☐ Map illegal HDL characters☐ Enable glitch filtering

Options for Power Estimation

☐ Generate Value Change Dump (VCD) file script Script Settings...

Design instance name:

More EDA Netlist Writer Settings...

NativeLink settings

☐ None☒ Compile test bench: Testbench.vhd ▼ Test Benches...☐ Use script to set up simulation: ...☐ Script to compile test bench: ...

More NativeLink Settings...

Reset

Buy Software

OK

Cancel

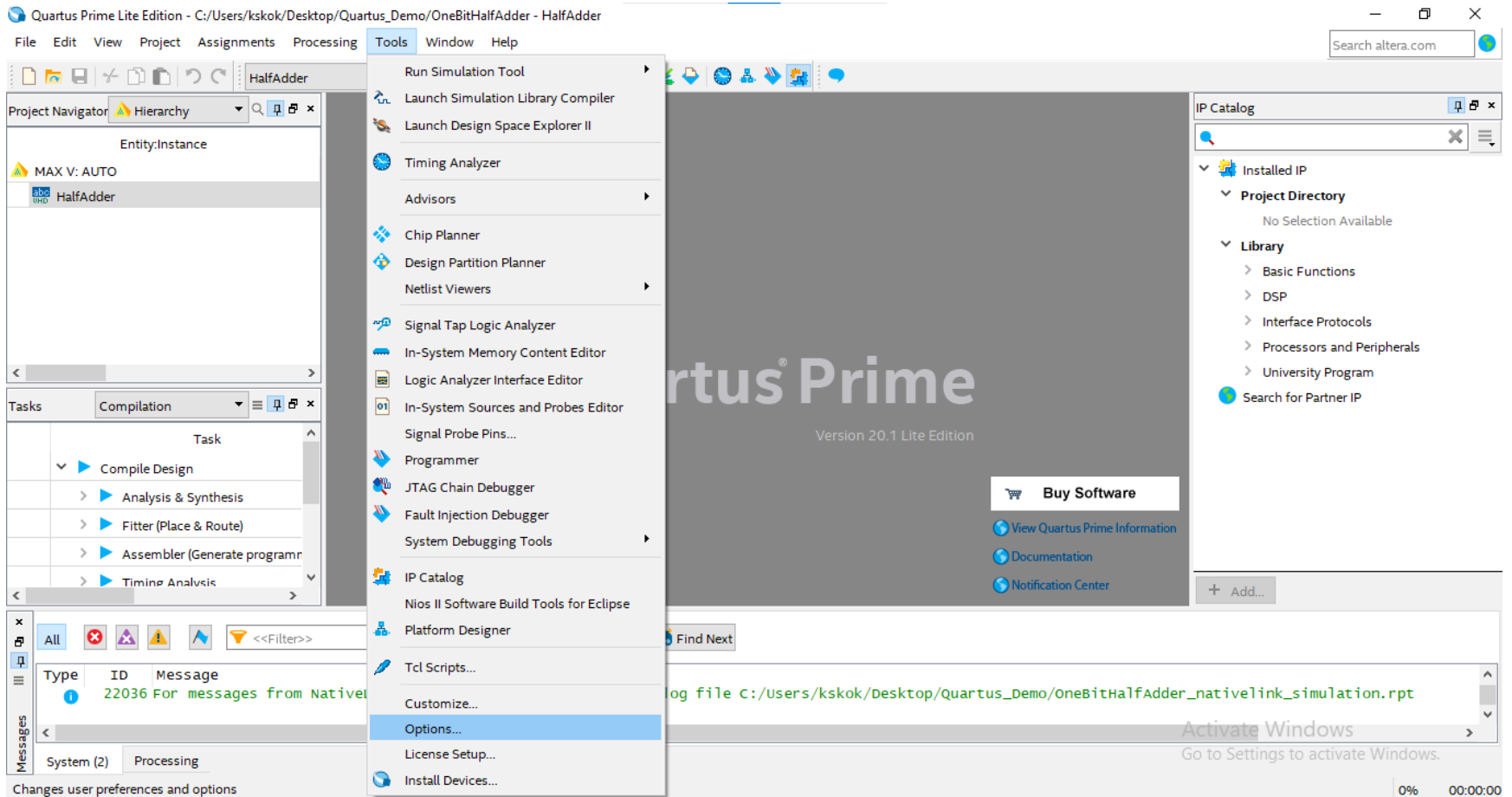
Apply

Help

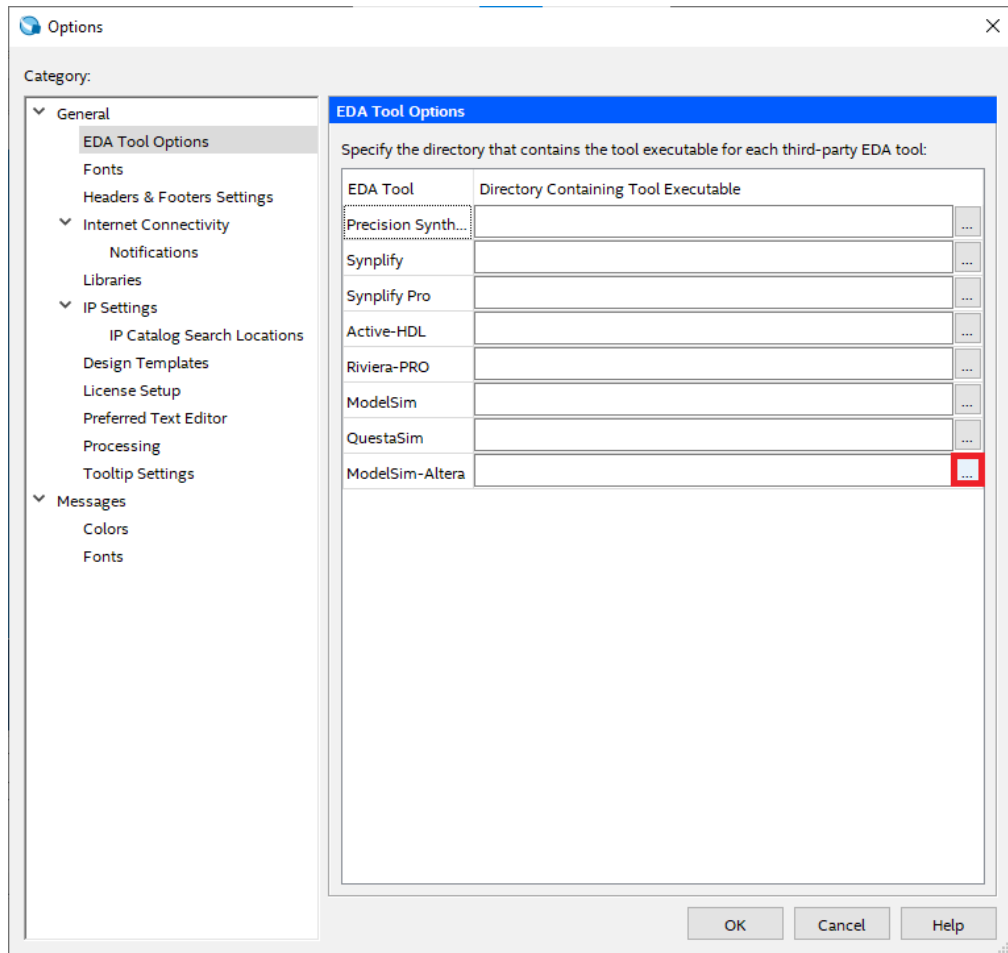
Activate Windows

Go to Settings to activate Windows.

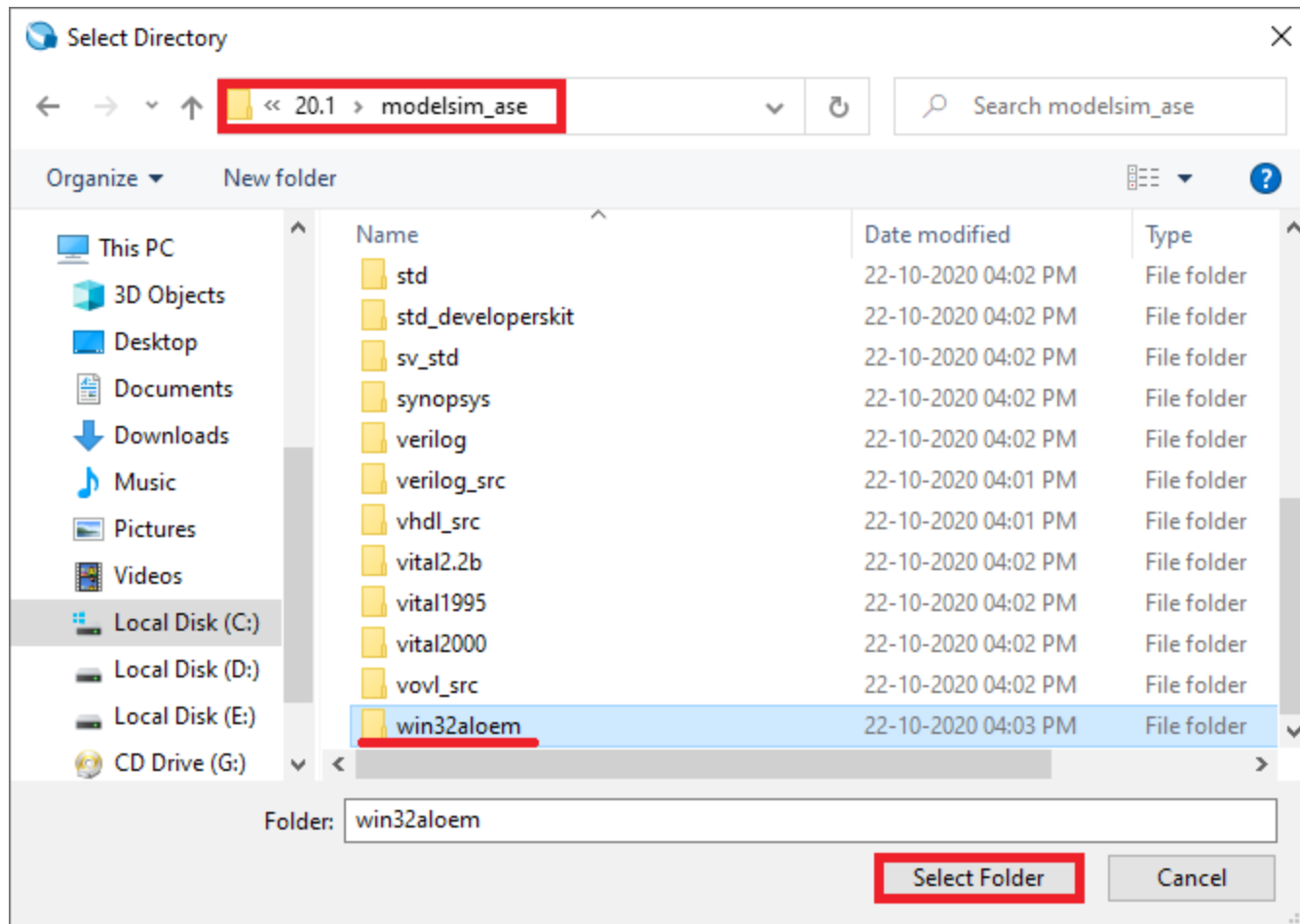
Tools -> Options



- Go to EDA Tool Options under General
- Click on the 3 dots beside ModelSim-Altera to open the browse window.



- Move through the following path until you reach win32aloem
- C -> intelFPGA_lite -> 20.1 -> modelsim_ase
- Highlight win32aloem with a left mouse click but don't go inside it
- Click select folder.



- The actual path might change in your case if you install in a different drive or change the installation folder name but eventually you should locate win32aloem under modelsim_ase.

Click ok after ensuring that the path is correct

