



## Installation Instructions for Windows

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This document contains instructions to install following software on **Windows OS**:

- **Atmel Studio 7**

**Note:** Even if you have **Atmel Studio 6** software installed on your system, you have to install **Atmel Studio 7** software for this course. Follow the instructions below for installing the same.

- **Proteus 8 Demonstration**

**Note:** Even if you have **Proteus 8 Professional** software installed on your system, you have to install **Proteus 8 Demonstration** software for this course. Follow the instructions below for installing the same.

The installation of all software has been tested on **Windows 8** and **10**. We recommend you to use one of these versions of **Windows OS**. These software have to be installed **ONLY ON 64-bit OS**.

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### 1. Atmel Studio 7

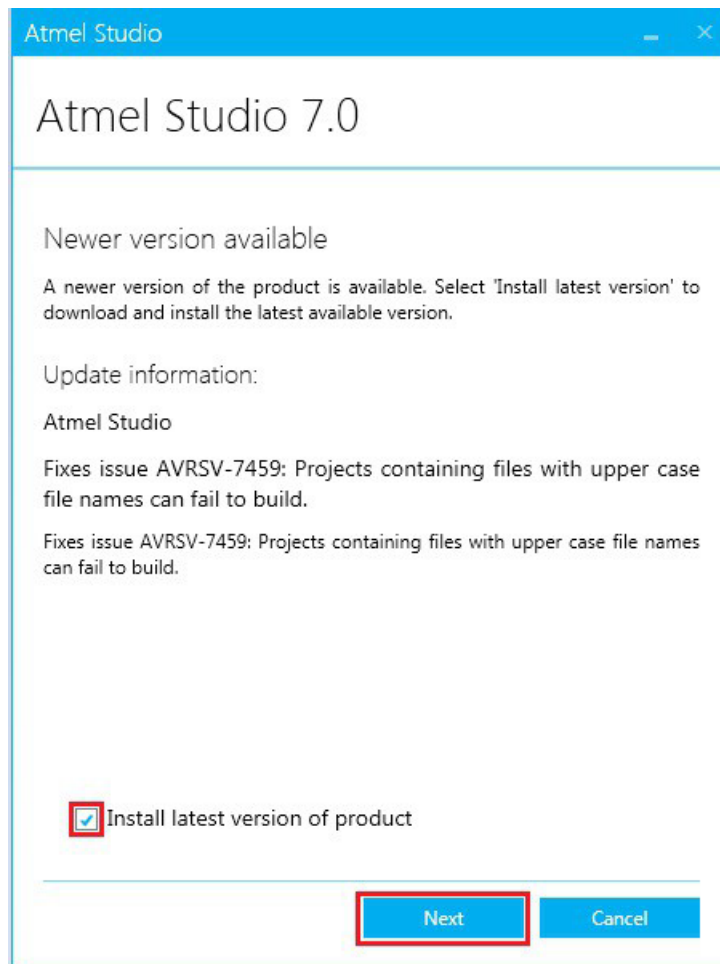
Atmel Studio provides a project management tool, source file editor, simulator, assembler, and front-end for C/C++, programming, and on-chip debugging. It carries and integrates the GCC toolchain for both AVR and ARM, Atmel Software Framework, AVR Assembler and Simulator.

#### Prerequisites to install Atmel Studio 7

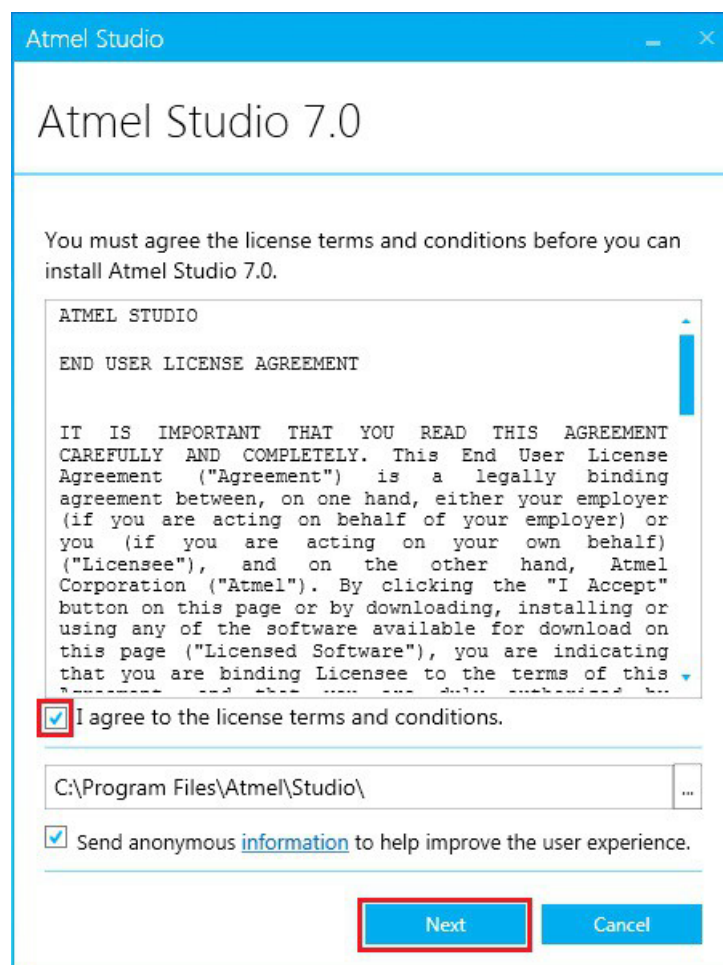
- **OS:** Windows 8 / 10
- **Architecture:** 64-bit
- **RAM:** 2 GB for 64-bit
- **Storage space:** 6 GB of available hard disk space

#### Installation Procedure:

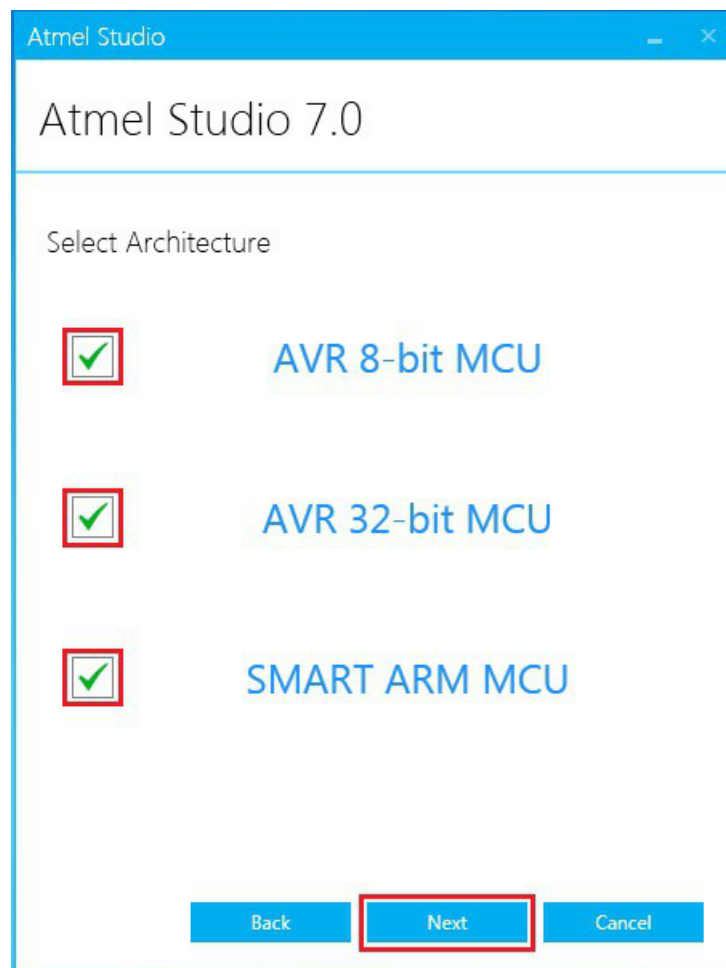
1. Download the Atmel Studio 7 installer file from this [link](#). Double-click on the downloaded installer file to start the installation process.
2. A setup dialog box opens as shown in the below figure. Select the option marked in red square and then click **Next**.



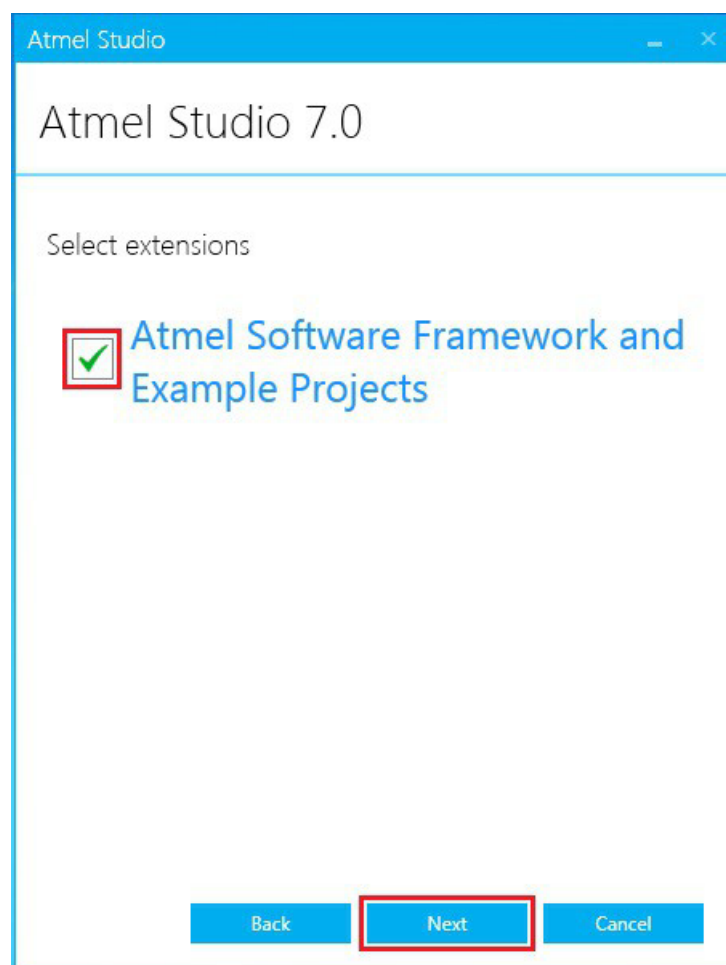
3. Agree on terms and conditions and click on **Next** button.



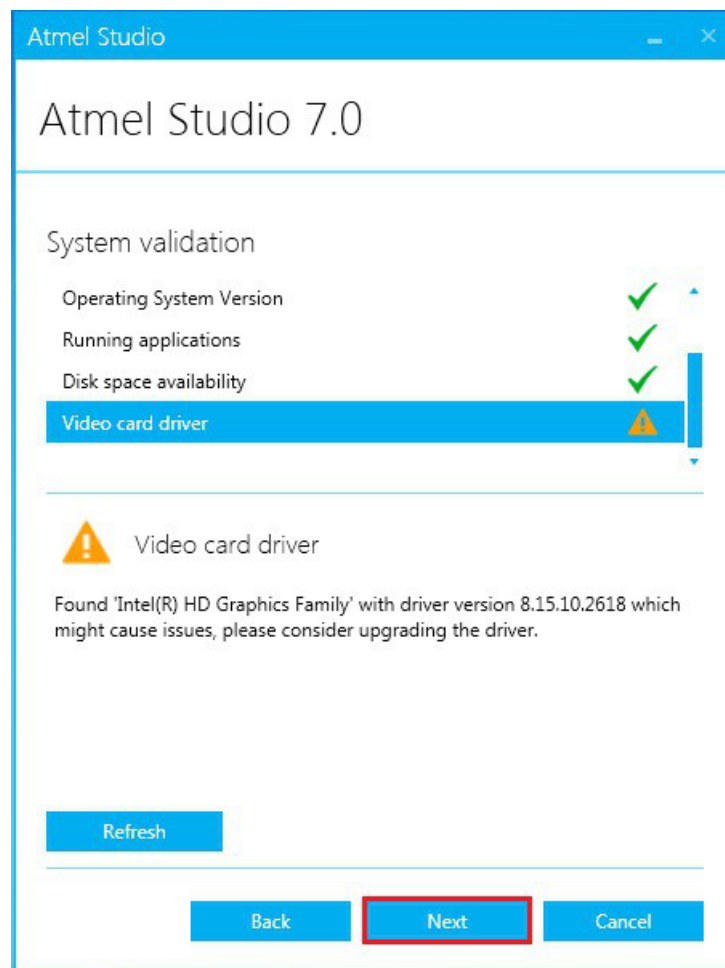
4. Select all the architectures as shown in below figure and then click on **Next**.



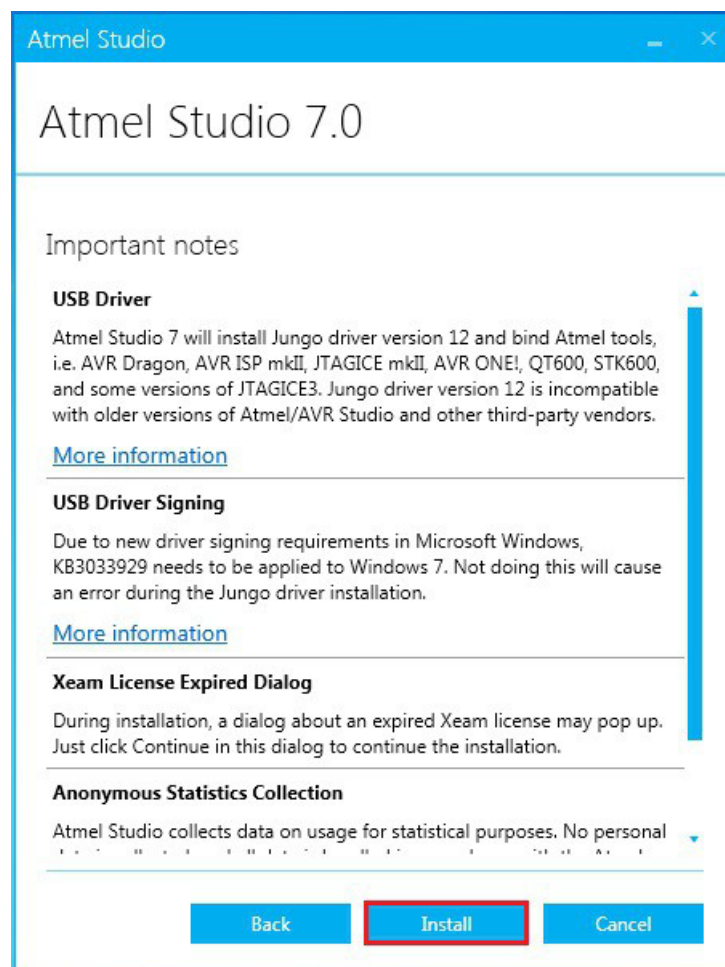
5. Select extension as shown in figure below and click on **Next**.



6. The setup will now check system validation before proceeding for installation. Click on **Next**.

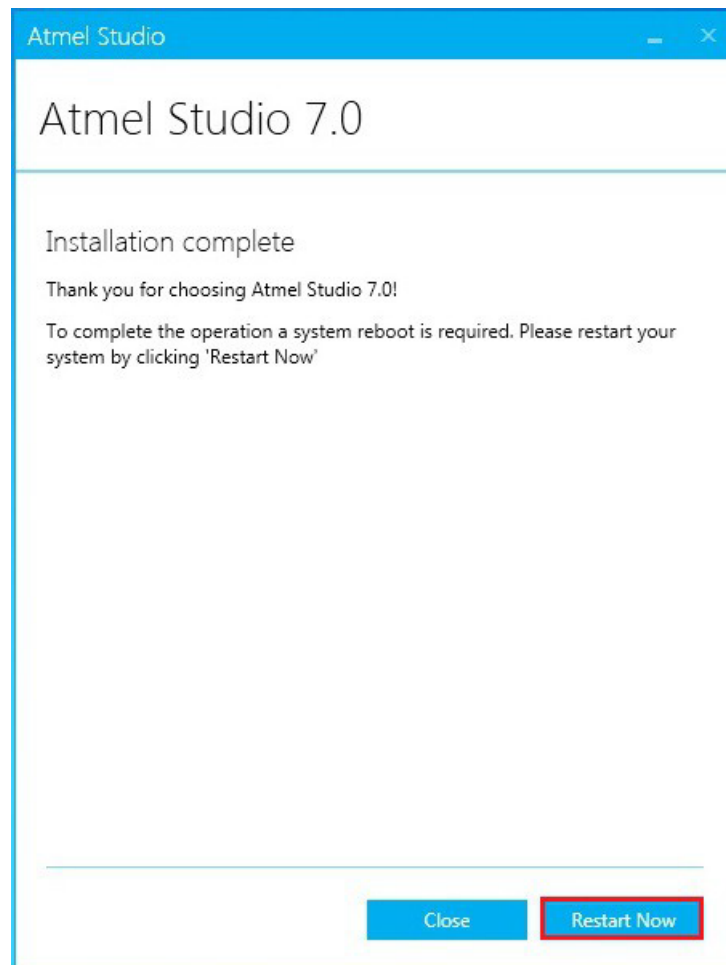


7. Click on **Install** to start the installation process.

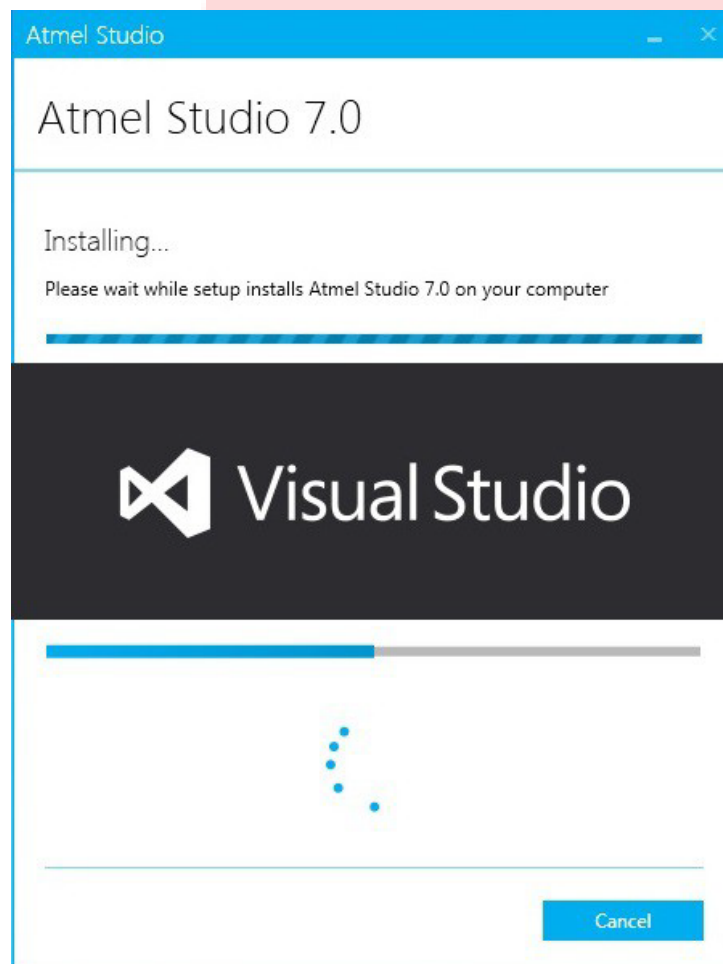


**Note:** For first time installation, Atmel Studio 7 will automatically install Visual Studio 2015 Shell. And this installation will take some time around 20 to 30 minutes.

8. After complete installation of Visual Studio 2015 shell, setup might ask you to restart the system. Click on **Restart Now** button to restart the system.



9. Setup will resume, once system is restarted. Now installation will take some time.

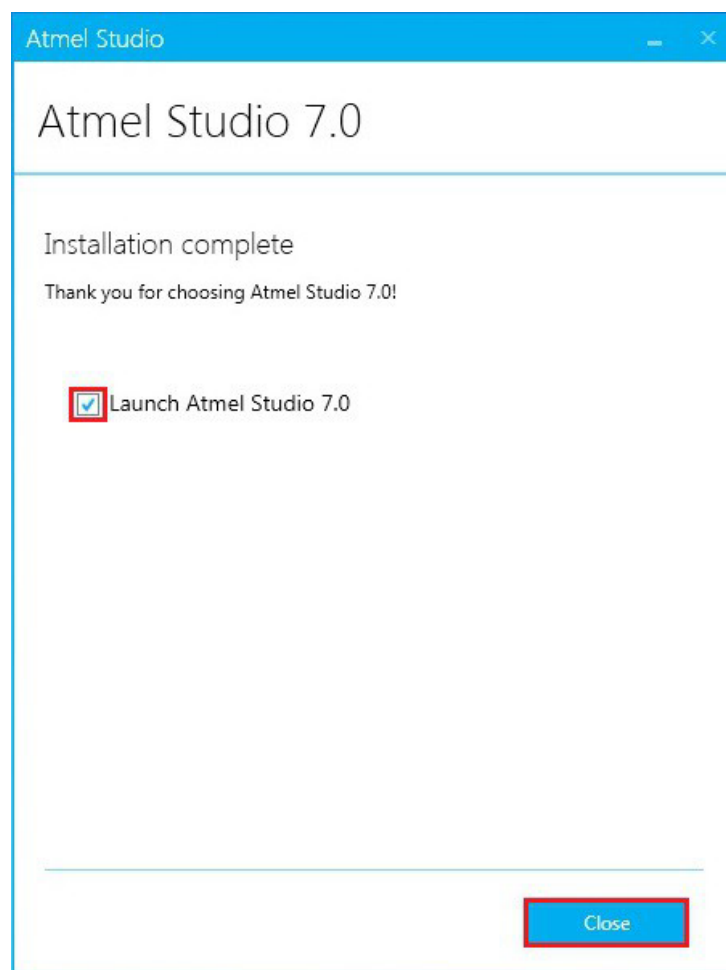


10. During installation process the following window will appear for several times which will need your permission to install different drivers from Atmel. To install these drivers, select the **Install** option every time such window appears.



**Note:** Install all drivers which it will ask during the Atmel Studio 7 installation process.

11. Once installation is completed, you can launch Atmel Studio 7.0, it will also create desktop icon.



12. Cheers! **Atmel Studio 7** software has been successfully installed on your system.

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## 2. Proteus 8 Demonstration

Proteus is an electronic circuit design software which includes a schematic capture, simulation and PCB (Printed Circuit Board) Layout modules.

One of its features is **Proteus Virtual System Modelling (VSM)** which provides a unique development platform for an engineer to rapidly prototype both hardware and firmware designs, in software. It helps one to design, test and debug the embedded projects in the circuit simulator even if the physical prototype is not available.

It allows one to load a program (HEX file, ELF file, etc.) as a property of the microcontroller part on the schematic and during simulation will show the effects of the program on the schematic.

You can change your firmware in the IDE of your choice and, once compiled, test the new code on the new system at the press of a button. This gives you total freedom to experiment with different ideas and to find the optimal design simulation for your project. The schematic serves as a '**virtual prototype**' for the firmware and it's quick and easy to make changes to either.

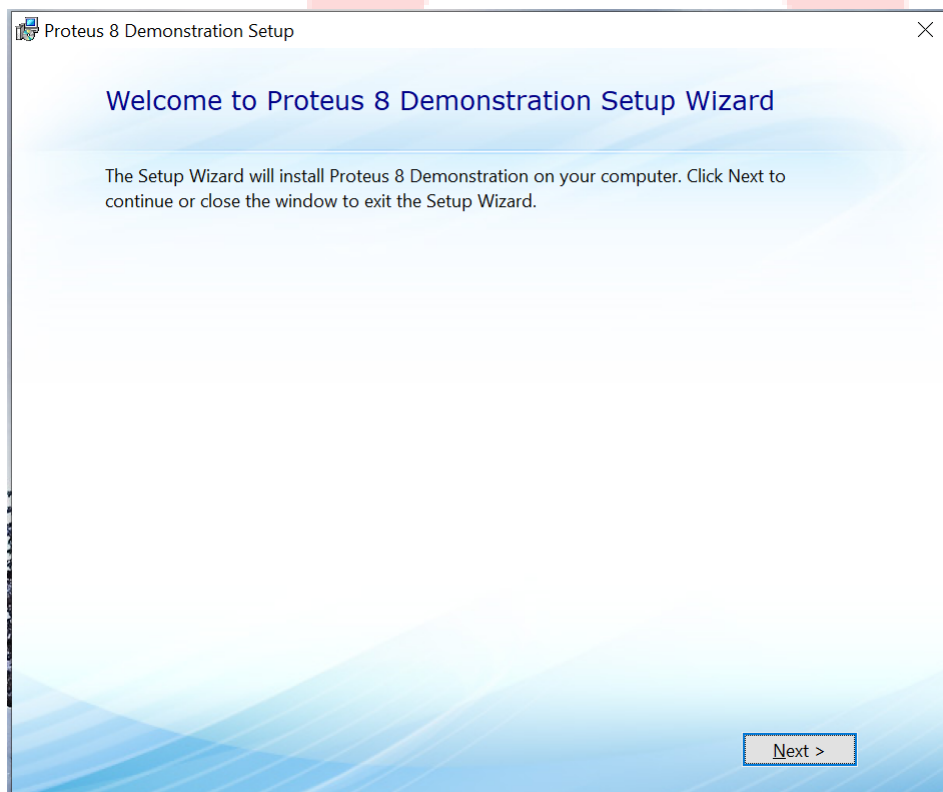
Proteus VSM will save time and effort during the design phase and in the testing/debugging phase.

### Prerequisites to install Proteus 8 Demonstration

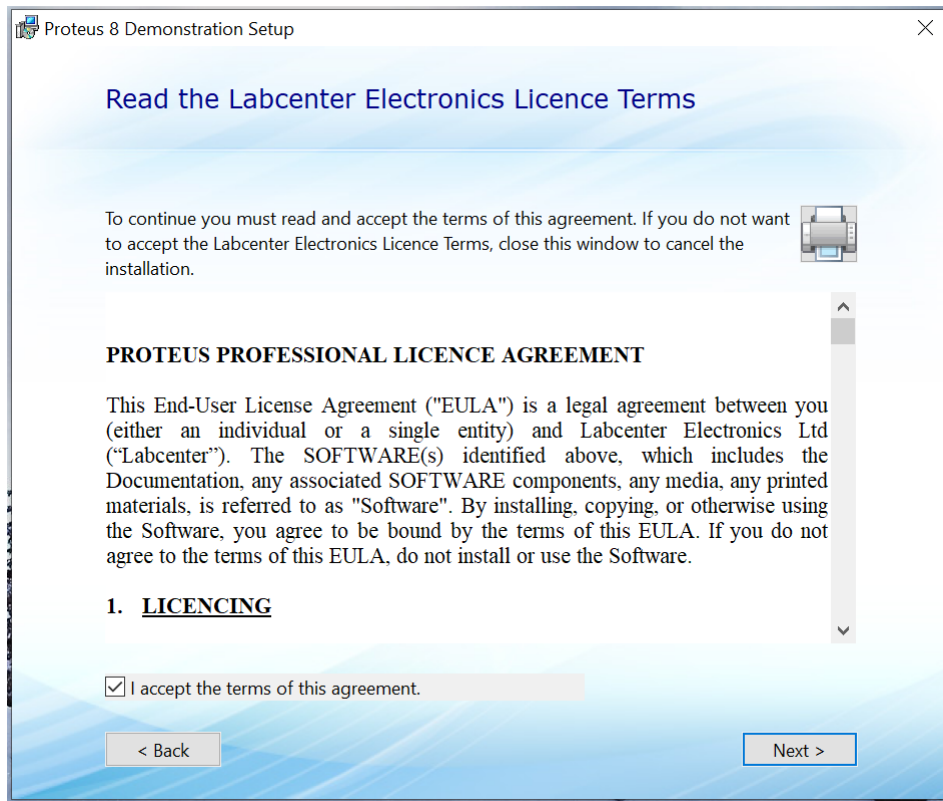
- **OS:** Windows 8 / 10
- **Architecture:** 64-bit
- **RAM:** 2 GB for 64-bit
- **Storage space:** 2 GB of available hard disk space

### Installation Procedure:

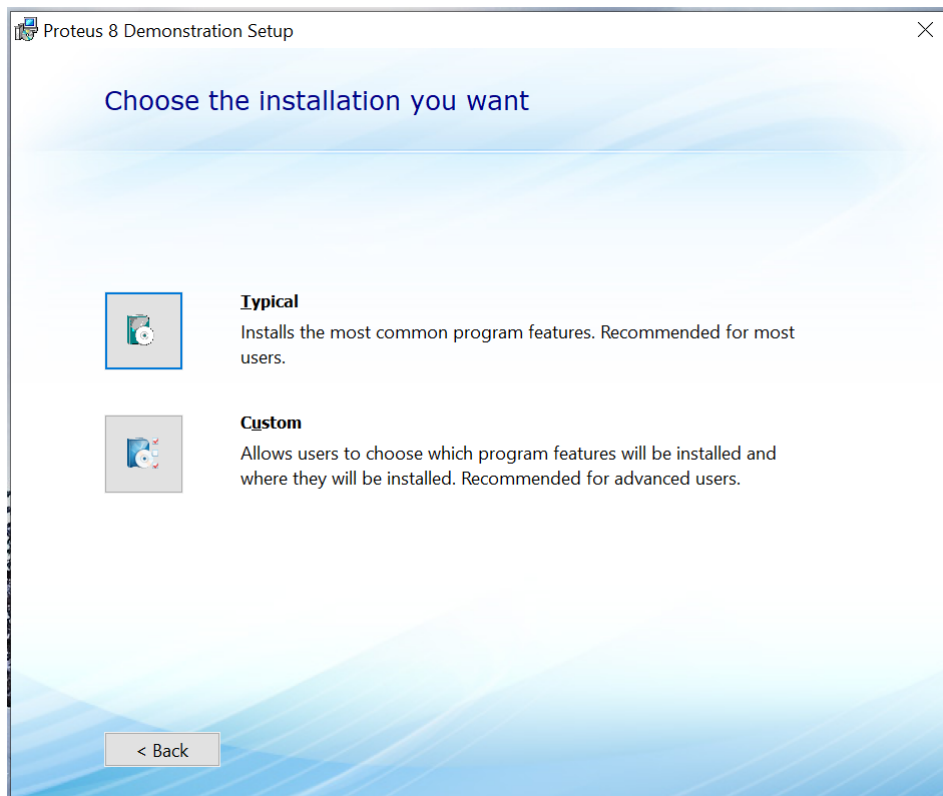
1. Download the Proteus Demonstration version installer file from this [link](#). Double-click on the downloaded installer file to start the installation process. Make sure you have stable Internet connectivity while Proteus is getting installed.
2. A setup dialog box opens as shown in the below figure. Click **Next**.



3. Accept the terms of agreement and click on **Next** button.

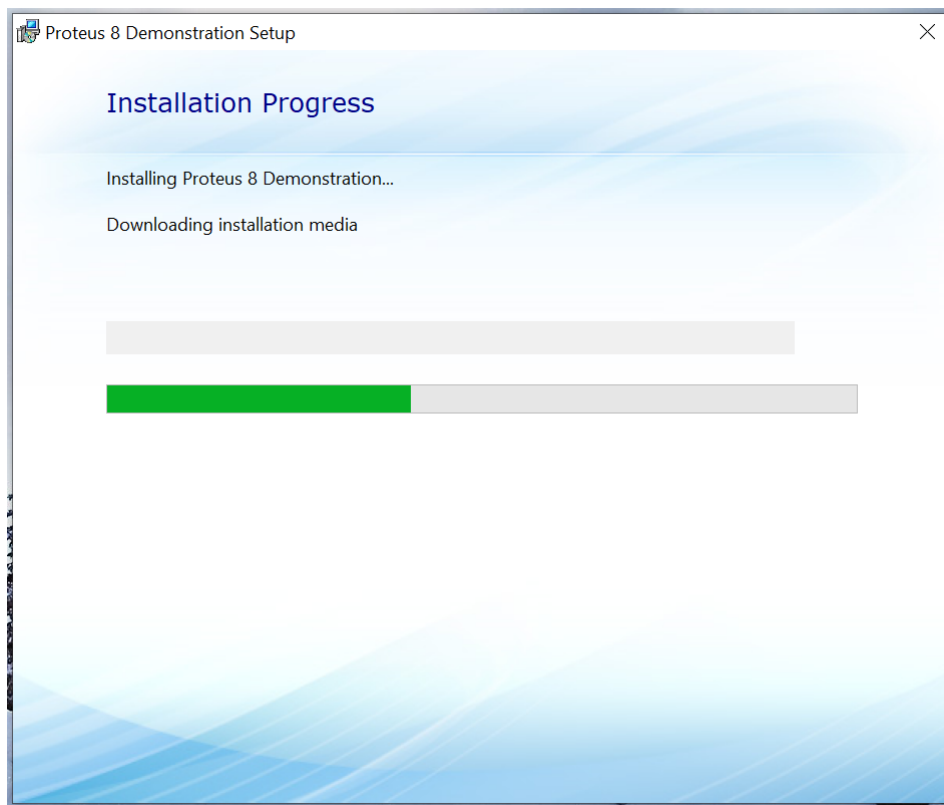


4. Select the Type of Installation as **Typical**, which is default one, double-click on the icon.

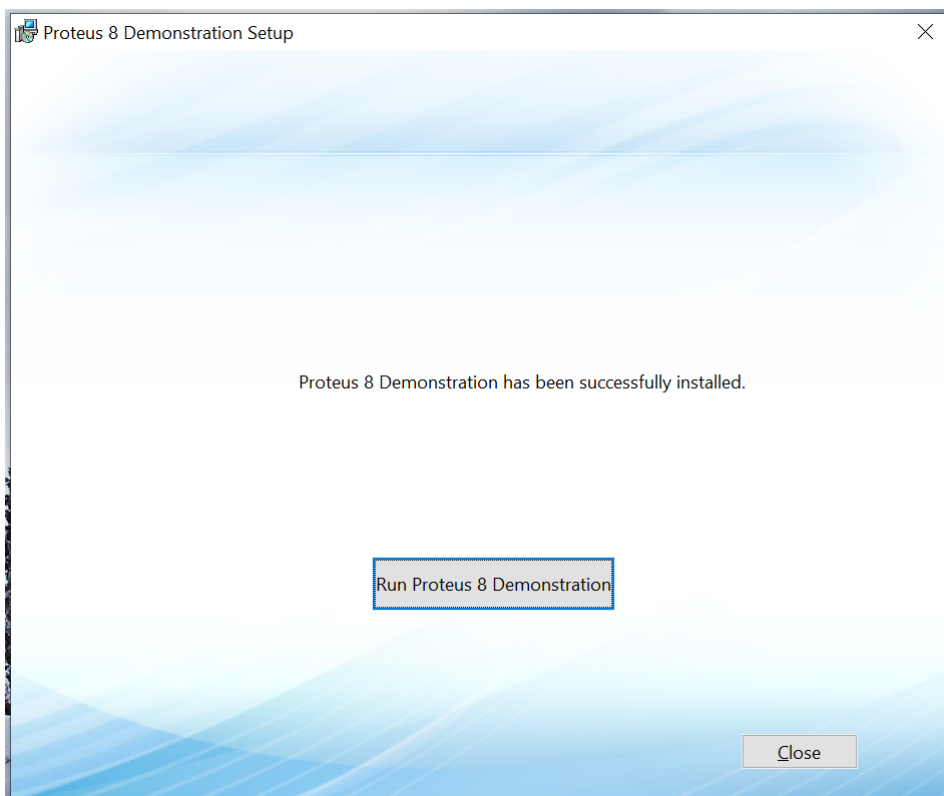


5. The installation process will start, it will take up to 20 to 30 minutes to install, as it downloads packages from Internet.





6. Once the installation is successful, you will see the dialog box as shown below.



7. Cheers! **Proteus 8 Demonstration** software has been successfully installed on your system.

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