



# Lattice Propel 1.0 Installation for Windows

## User Guide

FPGA-AN-02026-1.0

May 2020

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## About Lattice Propel™ 1.0

Lattice Propel™ 1.0 software is a complete set of graphical and command-line tools to create, analyze, compile, and debug both FPGA-based hardware and software processor systems.

## System Requirement

The basic system requirements for installing and running Lattice Propel 1.0 software on Microsoft Windows platform:

- Intel Pentium or Pentium-compatible PC
- 64-bit Operating System
- Windows 7 or Windows 10. Windows 10 is recommended.
- Free Disk Space: approximately 3 GB
- Computer Memory Requirement: 2 GB minimum; 3 GB recommended
- Network adapter and network connectivity for IP server access

# Installing Lattice Propel 1.0 on Microsoft Windows Platform

Follow steps below to install Lattice Propel 1.0 software:

1. Double-click the Lattice Propel 1.0 software installer you downloaded. The Welcome to Lattice Propel 1.0 Installation Wizard dialog box opens (Figure 1).

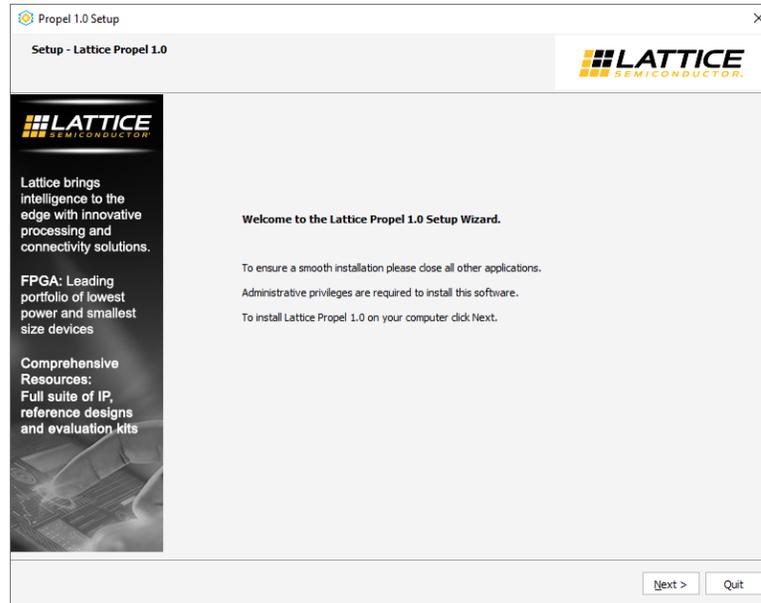


Figure 1. Lattice Propel 1.0 Installation Wizard

2. Click **Next**. The Installation Folder dialog appears (Figure 2).
3. The default installation folder is C:\lsc\propel\1.0. Click the **Browse** button to change to a desired folder for the installation.

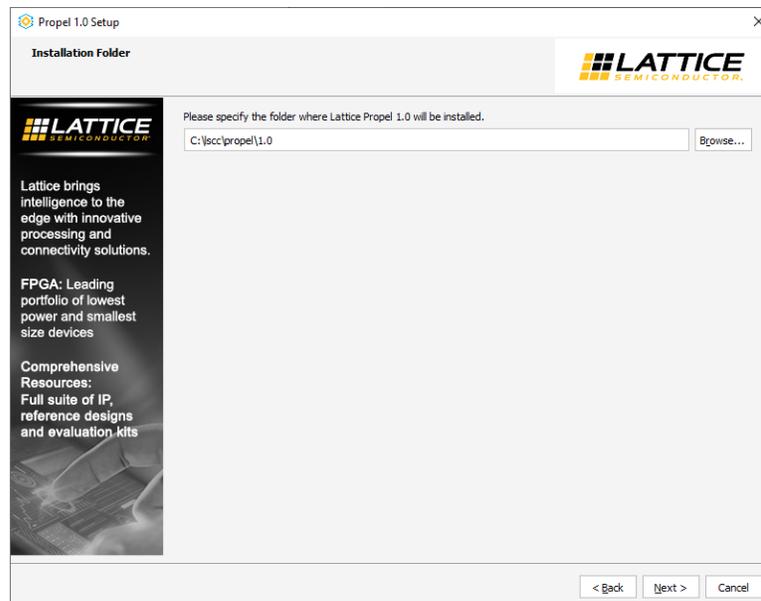


Figure 2. Selecting Installation Directory

- Click **Next**. The Select Components dialog opens (Figure 3). Select Propel 1.0. The Propel 1.0 component must be installed.

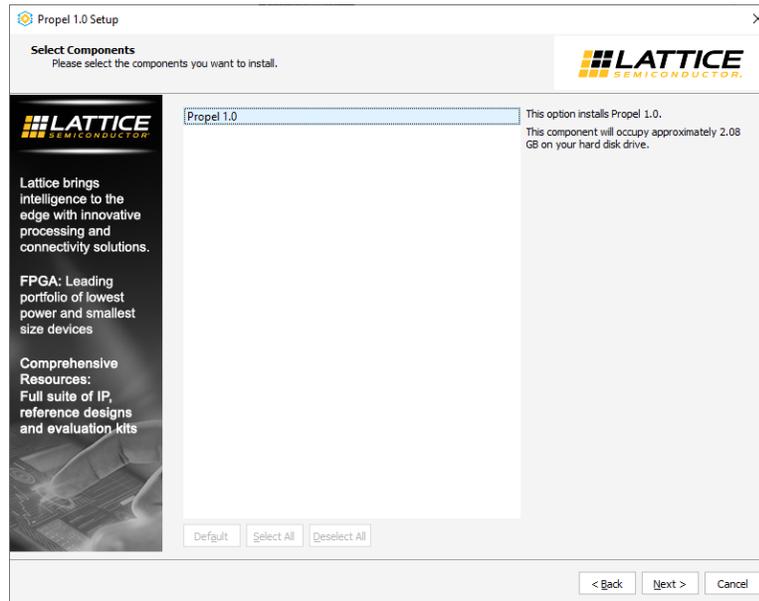


Figure 3. Selecting Components

- Click **Next**. The License Agreement dialog opens (Figure 4).

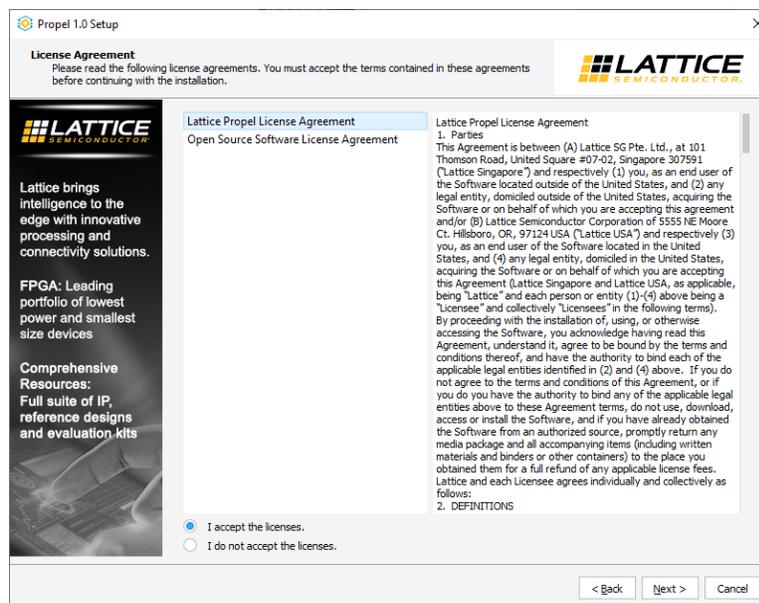
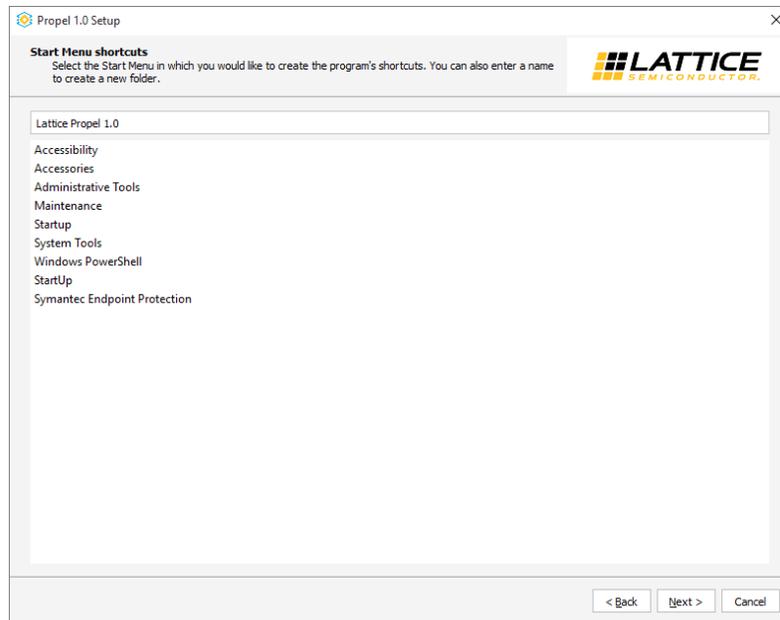


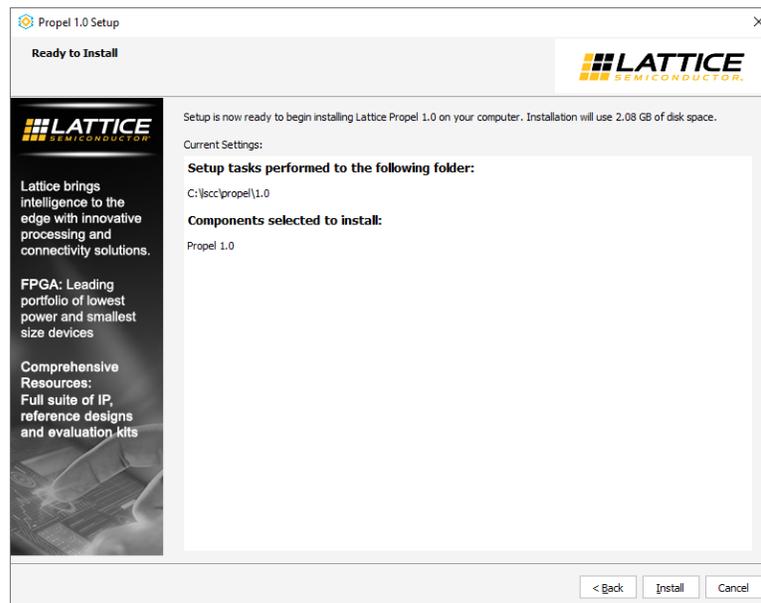
Figure 4. Accepting License Agreements

- Read the license agreement. If you agree, choose **I accept the licenses** option. You must accept the terms contained in these agreements before continuing with the installation. Click **Next**. The Start Menu Shortcuts dialog opens (Figure 5).



**Figure 5. Selecting Windows Program Group**

7. Select the Start menu where you want to create the program shortcut.
8. Click **Next**. The Ready to Install dialog opens (Figure 6).



**Figure 6. Installing Components**

9. Review the current settings, the destination folder and the selected components. If everything is correct, click **Install** to start the installation (Figure 7).

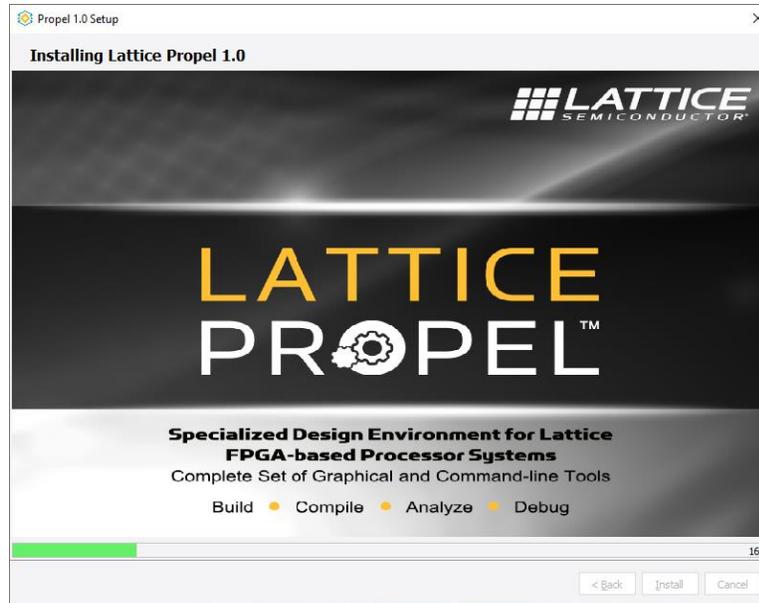


Figure 7. Installing Propel 1.0

10. When the installation is completed, the Complete the Lattice Propel 1.0 installation Wizard pops up (Figure 8).

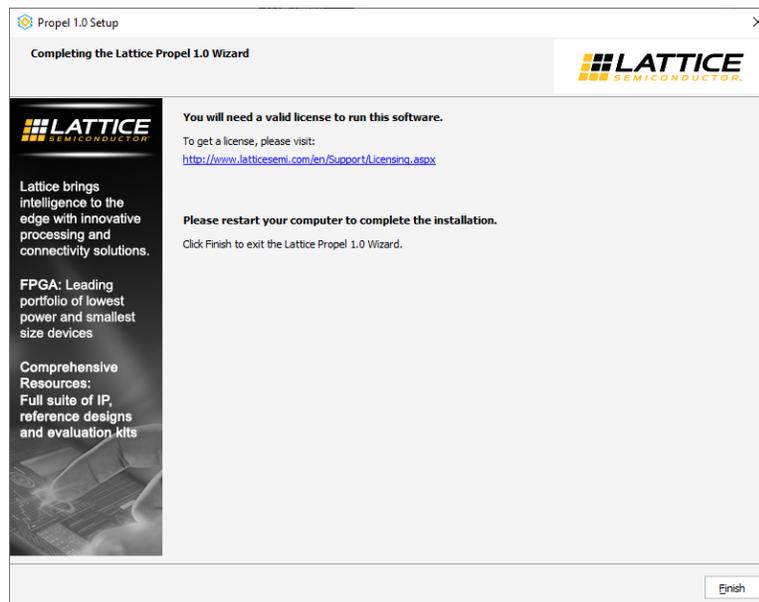


Figure 8. Installation Finished Page

11. In the Installation Wizard Complete dialog box, read the confirmation note and click **Finish**.

Note:

Do not close the installation window. The window automatically closes once the installation is completed.

12. A message pops up after the installation prompting you to restart PC. New environment variables are added during the installation process.
13. After restarting the computer, Lattice Propel 1.0 can be found from the Start menu (Figure 9). The Lattice Propel 1.0 shortcut icon can be found on your computer Desktop (Figure 9). You can invoke Lattice Propel 1.0 by choosing from the Start menu or double clicking the shortcut icon.

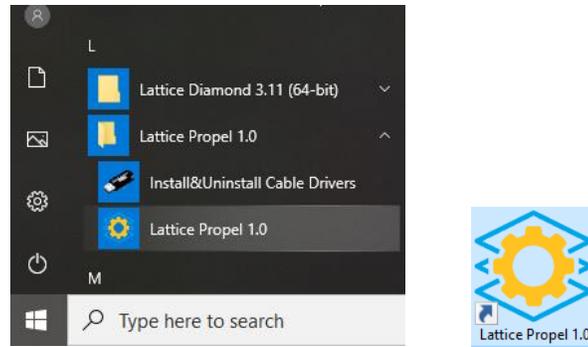


Figure 9. Lattice Propel 1.0 in the Start Menu and the Shortcut Icon

## Licensing for Lattice Propel 1.0

To obtain a license file for your Propel 1.0 software:

1. Go to Lattice Semiconductor Software Licensing page [www.latticesemi.com/license](http://www.latticesemi.com/license).
2. Select Lattice Propel. You can get the Propel Software Licensing page.
3. Follow the instructions step-by-step.
4. Place license.dat under the `<install_path>\license\` directory, where your Propel is installed.

Note:

If you saved the license.dat file in a directory other than the default one mentioned above, change LM\_LICENSE\_FILE variable in the Environment Variables dialog of System Properties (Figure 10) of MS Windows accordingly pointing to the exact directory you place license.dat. Before invoking Lattice Propel 1.0, make sure the environment variable is correctly set.

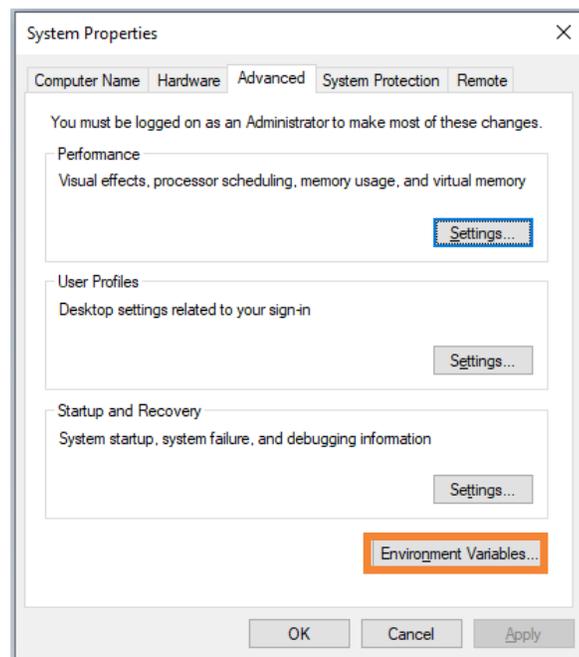


Figure 10. Environment Variables in System Properties

## Running Propel 1.0 Software

After Lattice Propel 1.0 software is installed, you can open it by using either of the following two methods:

### Invoking Propel 1.0 from Start Menu

To invoke Propel 1.0:

- In Windows 7, choose Programs > Lattice Propel 1.0 > Lattice Propel 1.0.
- In Windows 10, choose Apps > Lattice Propel 1.0 > Lattice Propel 1.0.

The Propel main window opens.

### Invoking Propel 1.0 from Desktop Icon

To invoke Propel 1.0:

- In Windows 7, double-click Lattice Propel 1.0 icon from desktop.
- In Windows 10, double-click Lattice Propel 1.0 icon from desktop.

The Propel main window opens.

## Install and Uninstall Cable Drivers

Parallel port or USB drivers are required to program Lattice devices using Lattice download cables.

To install the drivers, you need to select *Run as administrator* from the *Install&Uninstall Cable Drivers* right-click menu.

To start installing/uninstalling cable drivers:

- In Windows 7, choose Programs > Lattice Propel 1.0 > Install&Uninstall Cable Drivers.
- In Windows 10, choose Apps > Lattice Propel 1.0 > Install&Uninstall Cable Drivers.

Driver(s) installation options (Figure 11):

- LSC Windows Parallel Port Driver — Supports device programming through the parallel port of your PC. The driver can be installed on Windows 7 and Windows 10.
- LSC Windows USB Driver — Supports device programming through the USB port of your PC. The driver can be installed on Windows 7 and Windows 10. This is for the HW-USBN-2A USB cable.
- FTDI Windows USB Driver — Supports Lattice HW-USBN-2B USB cable and Lattice evaluation boards with FTDI (Future Technology Devices International) USB host chip.

Note:

When the FTDI driver is installed for the first time, the Windows operating system may report that Windows cannot verify the publisher of this driver software. Select *Install this driver software anyway*. This warning message does not occur on subsequent installations.

- All Drivers — Supports all the above three drivers.



**Figure 11. Driver(s) Installation Options**

To install a driver:

1. In the Drivers Install/Uninstall dialog box (Figure 11), select the desired driver. Click Install.
2. A few successive messages are prompted letting you verify the USB cable is plugged in. Click Yes.
3. In the Installation Completed dialog box, click OK.

Note:

Do not close the installation window. The installation window automatically closes once the installation is completed.

## Revision History

### Revision 1.0, May 2020

Section	Change Summary
All	Initial release



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