



Lattice Propel 2025.1 Installation for Windows

User Guide

FPGA-AN-02098-1.0

June 2025

Disclaimers

Lattice makes no warranty, representation, or guarantee regarding the accuracy of information contained in this document or the suitability of its products for any particular purpose. All information herein is provided AS IS, with all faults, and all associated risk is the responsibility entirely of the Buyer. The information provided herein is for informational purposes only and may contain technical inaccuracies or omissions, and may be otherwise rendered inaccurate for many reasons, and Lattice assumes no obligation to update or otherwise correct or revise this information. Products sold by Lattice have been subject to limited testing and it is the Buyer's responsibility to independently determine the suitability of any products and to test and verify the same. LATTICE PRODUCTS AND SERVICES ARE NOT DESIGNED, MANUFACTURED, OR TESTED FOR USE IN LIFE OR SAFETY CRITICAL SYSTEMS, HAZARDOUS ENVIRONMENTS, OR ANY OTHER ENVIRONMENTS REQUIRING FAIL-SAFE PERFORMANCE, INCLUDING ANY APPLICATION IN WHICH THE FAILURE OF THE PRODUCT OR SERVICE COULD LEAD TO DEATH, PERSONAL INJURY, SEVERE PROPERTY DAMAGE OR ENVIRONMENTAL HARM (COLLECTIVELY, "HIGH-RISK USES"). FURTHER, BUYER MUST TAKE PRUDENT STEPS TO PROTECT AGAINST PRODUCT AND SERVICE FAILURES, INCLUDING PROVIDING APPROPRIATE REDUNDANCIES, FAIL-SAFE FEATURES, AND/OR SHUT-DOWN MECHANISMS. LATTICE EXPRESSLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS OF THE PRODUCTS OR SERVICES FOR HIGH-RISK USES. The information provided in this document is proprietary to Lattice Semiconductor, and Lattice reserves the right to make any changes to the information in this document or to any products at any time without notice.

Inclusive Language

This document was created consistent with Lattice Semiconductor's inclusive language policy. In some cases, the language in underlying tools and other items may not yet have been updated. Please refer to Lattice's inclusive language [FAQ 6878](#) for a cross reference of terms. Note in some cases such as register names and state names it has been necessary to continue to utilize older terminology for compatibility.

Contents

Contents 3

1. About Lattice Propel™ 2025.1 4

2. System Requirement 4

3. Installing Lattice Propel 2025.1 on Microsoft Windows Platform 5

4. Licensing for Lattice Propel 2025.1..... 13

5. Running Propel 2025.1 Software 14

6. Install and Uninstall Cable Drivers 15

Revision History 16

1. About Lattice Propel™ 2025.1

Lattice Propel™ 2025.1 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.

2. System Requirements

The basic system requirements for installing and running Lattice Propel 2025.1 software on Microsoft Windows platform are:

- Complex instruction set system based on x86 64-bit architecture
- Windows 11 Pro 64-bit Operating System
- Windows 10 64-bit Operating System
- Free Disk Space: approximately 7 GB
- Network adapter and network connectivity for IP server access

3. Installing Lattice Propel 2025.1 on Microsoft Windows Platform

Follow steps below to install Lattice Propel 2025.1 software:

1. Double-click the Lattice Propel 2025.1 software installer you downloaded. The **Install Lattice Propel 2025.1** dialog box opens (Figure 3.1).

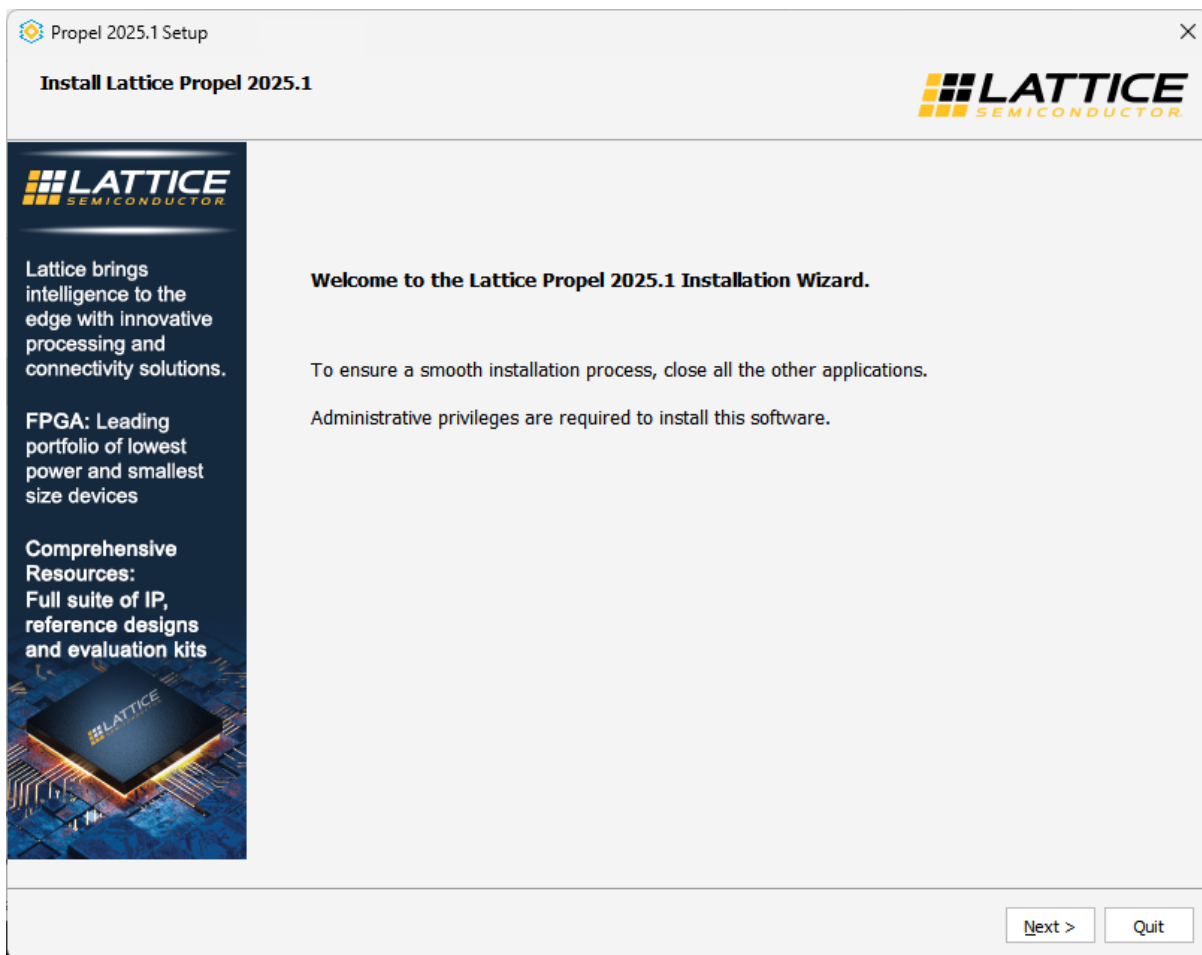


Figure 3.1. Lattice Propel 2025.1 Installation Wizard

2. Click **Next**. The **Select Installation Folder** dialog appears (Figure 3.2).
3. The default installation folder is C:\lsc\propel\2025.1. Click the **Browse** button to change to a desired folder for the installation.

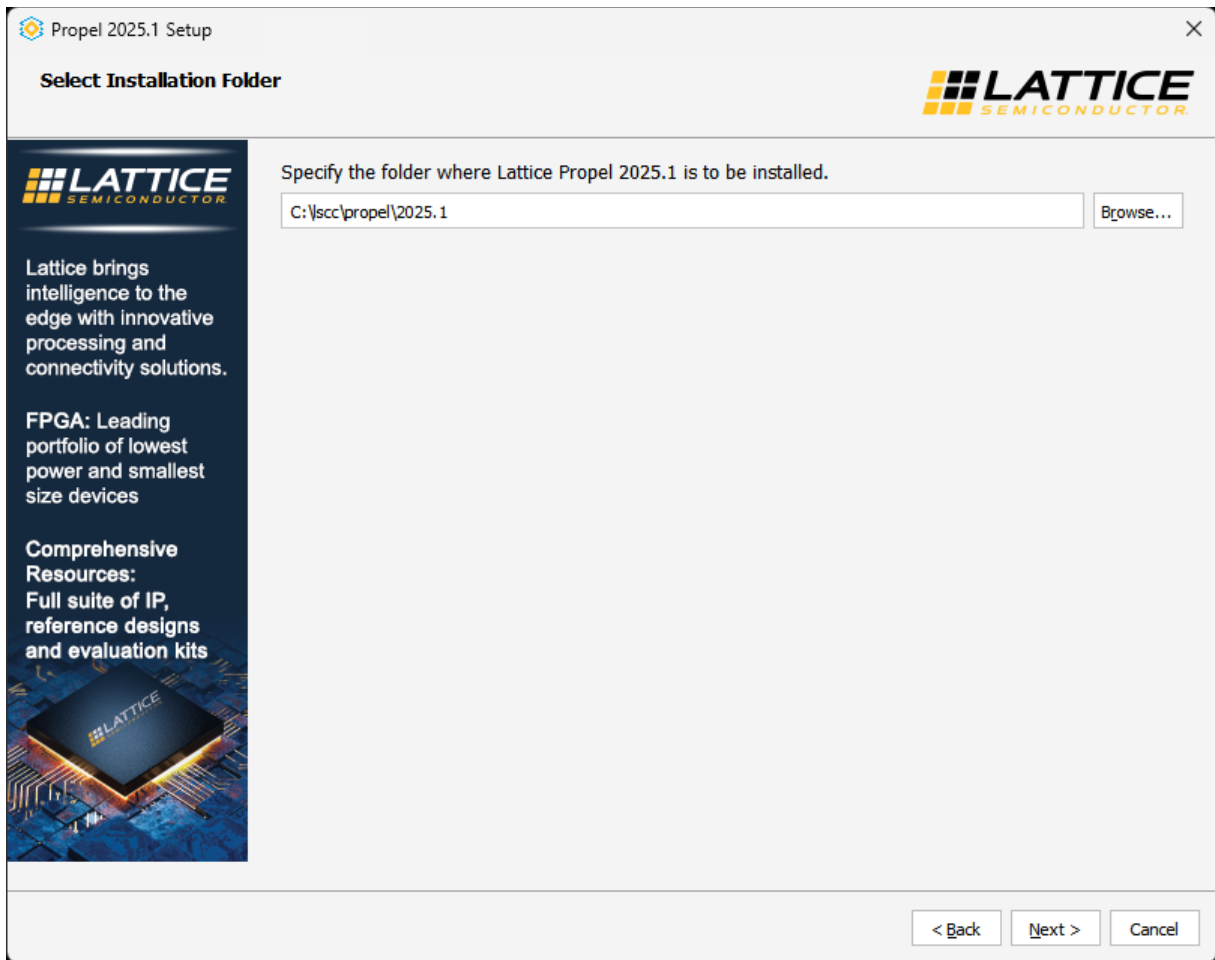


Figure 3.2. Selecting Installation Folder

4. Click **Next**. The **Select Component(s)** dialog opens (Figure 3.3). Select Propel 2025.1. The Propel 2025.1 component must be installed.

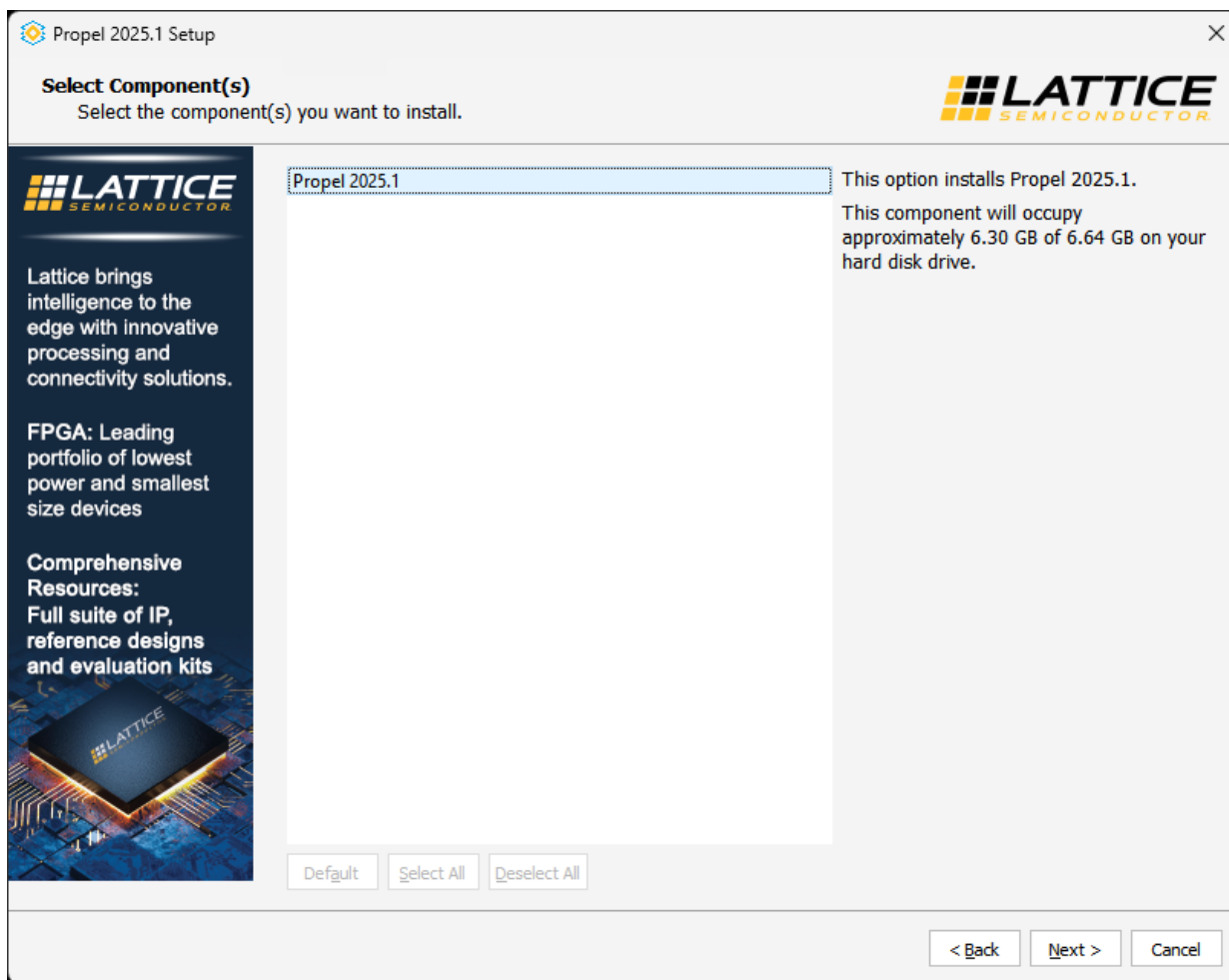


Figure 3.3. Selecting Component(s)

5. Click **Next**. The **License Agreement** dialog opens (Figure 3.4).

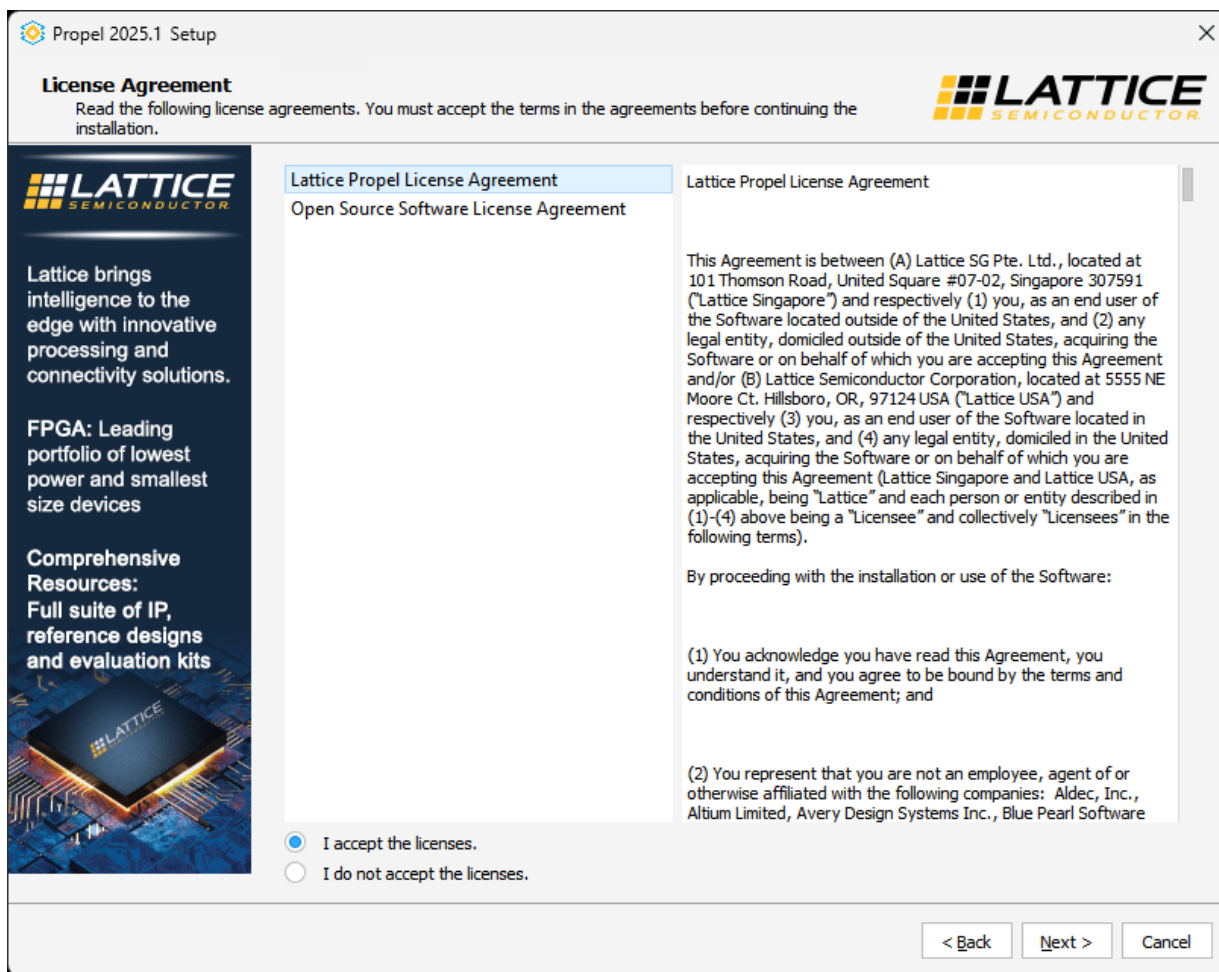


Figure 3.4. Accepting License Agreements

6. 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 Shortcut** dialog opens (Figure 3.5).

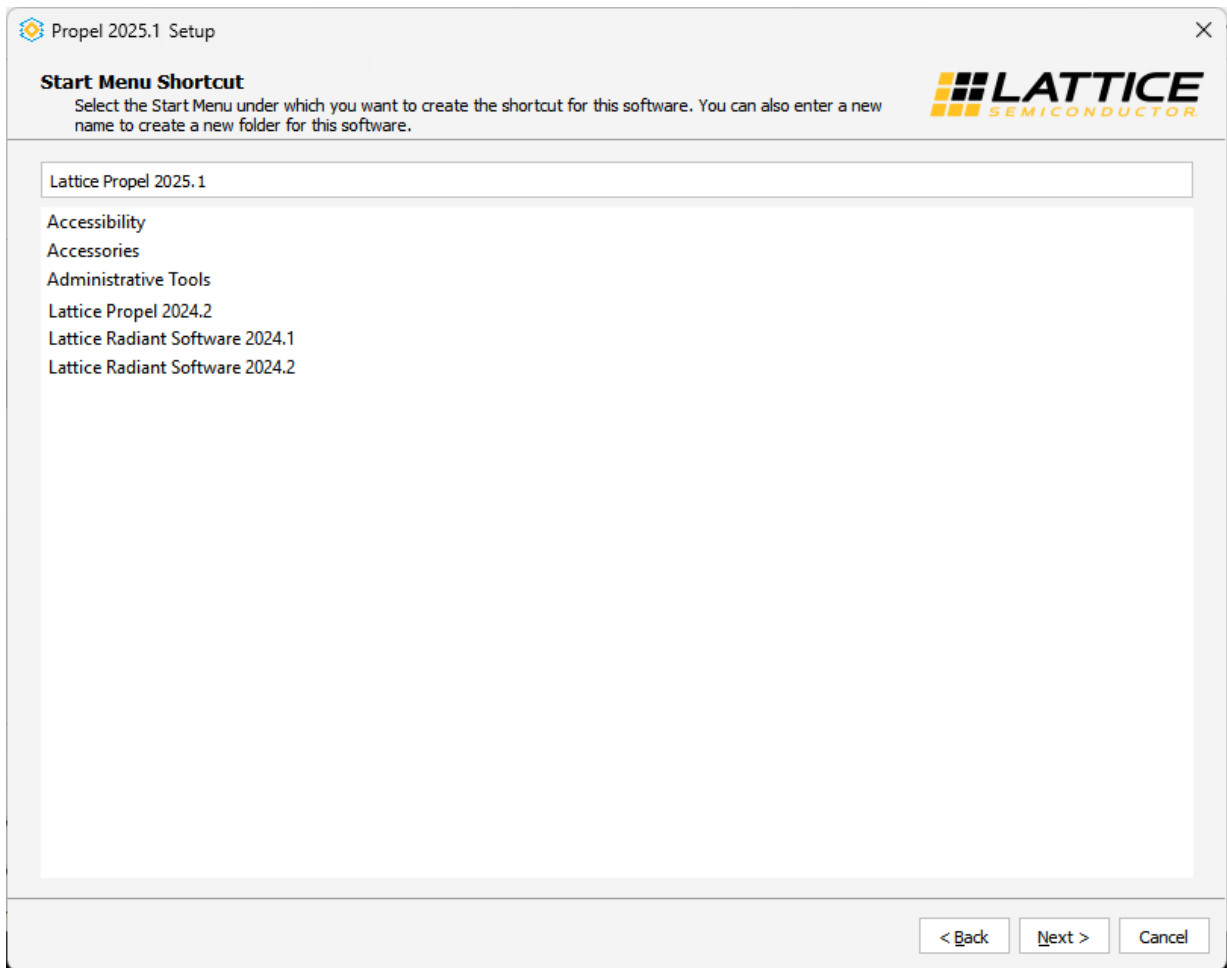


Figure 3.5. Selecting Windows Program Group

7. Select the Start menu where you want to create the program shortcut.
8. Click **Next**. The **Ready to Install** dialog opens ([Figure 3.6](#)).

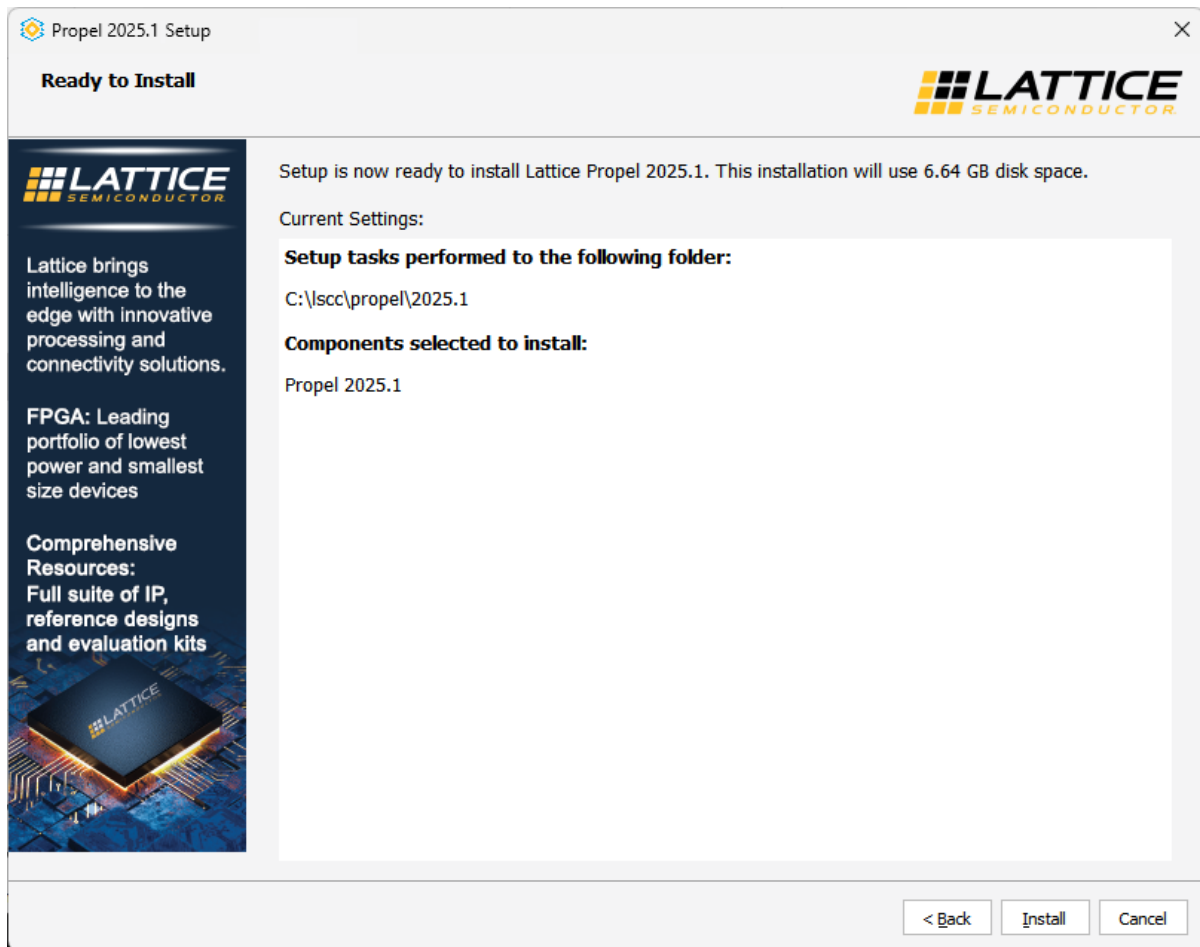


Figure 3.6. Installing Components

9. Review the current settings, the destination folder and the selected components. If everything is correct, click **Install** to start the installation (Figure 3.7).

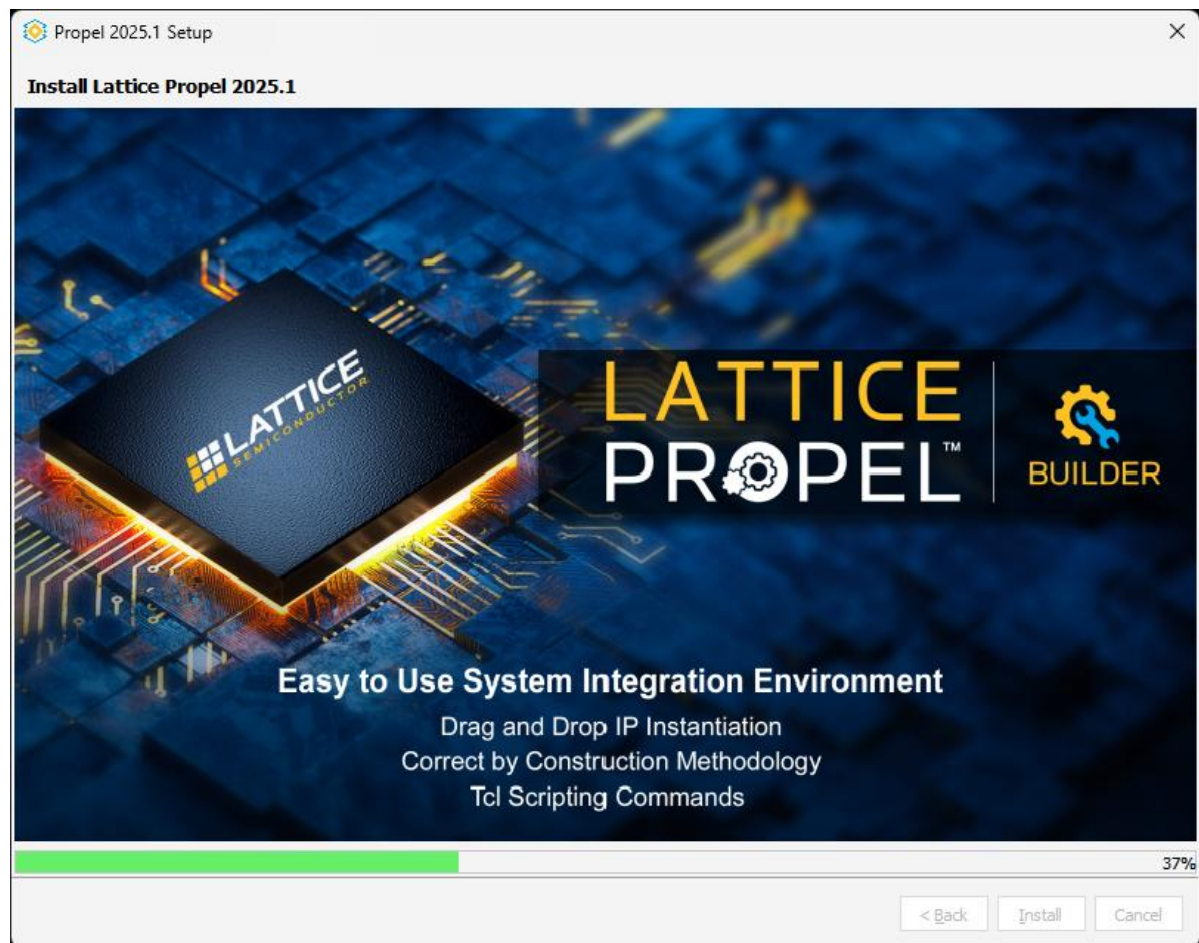


Figure 3.7. Installing Propel 2025.1

10. When the installation is completed, the **Lattice Propel 2025.1 Installation Completed** wizard pops up ([Figure 3.8](#)).

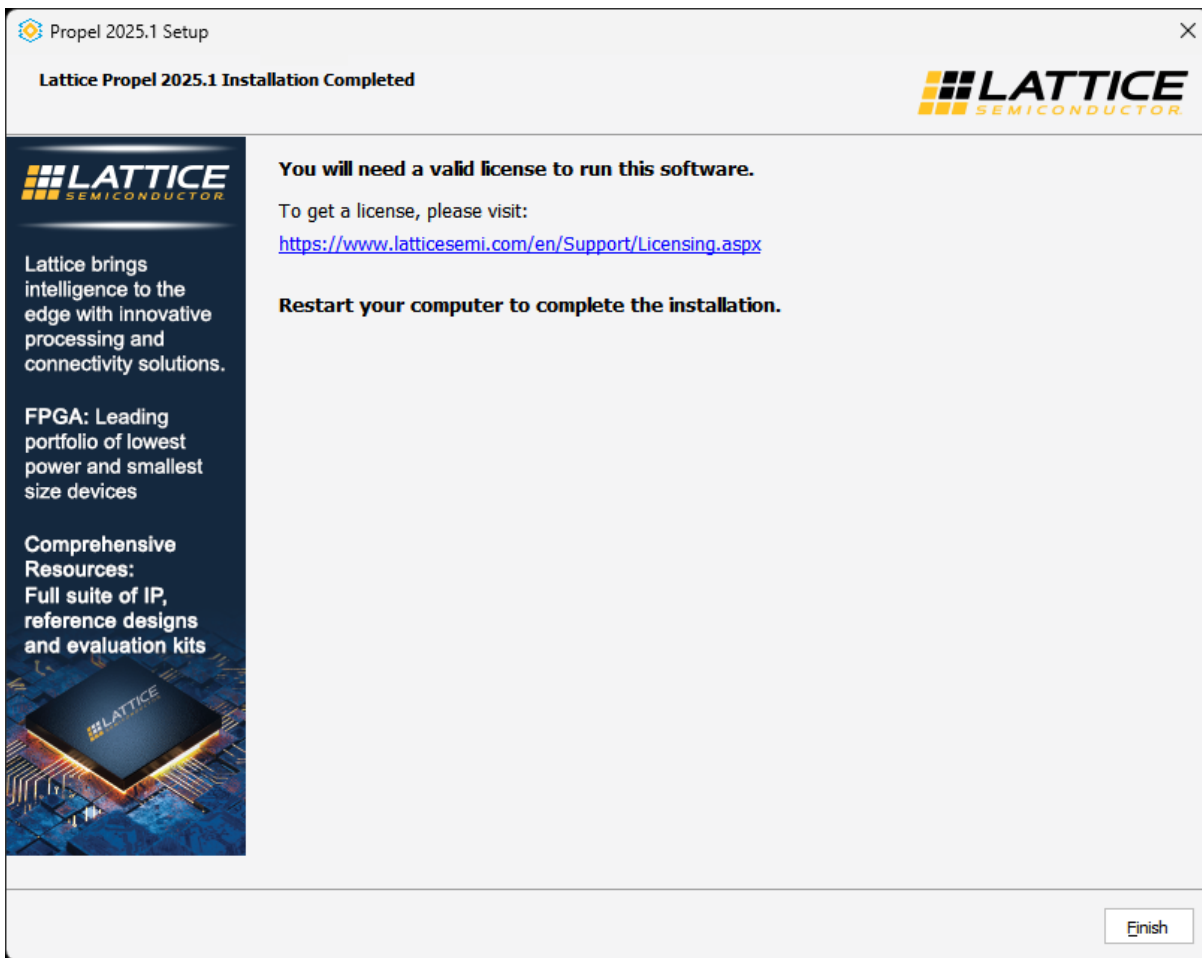


Figure 3.8. Installation Completed

11. In the **Installation Completed** wizard dialog box, read the confirmation note and click **Finish**.

Note:

Do not close the installation window manually. The window closes automatically 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 2025.1** and **Lattice Propel Builder 2025.1** can be found from the Start menu (Figure 3.9). The **Lattice Propel 2025.1** shortcut icon and the **Lattice Propel Builder 2025.1** shortcut icon can be found on your computer Desktop (Figure 3.9). You can invoke Lattice Propel 2025.1 or Lattice Propel Builder 2025.1 by choosing from the Start menu or double clicking the shortcut icon.

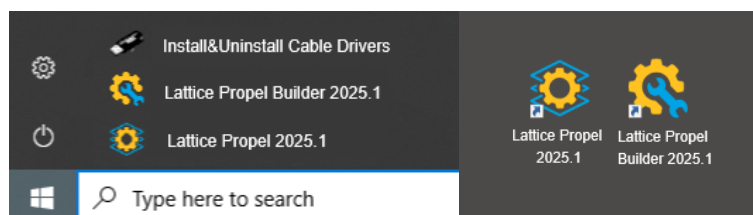


Figure 3.9. Lattice Propel 2025.1 and Lattice Propel Builder 2025.1 in Start Menu and Shortcut Icons

4. Licensing for Lattice Propel 2025.1

By obtaining Lattice Propel 2025.1 license, you can access all the related features in Lattice Diamond or Lattice Radiant software.

To obtain a license file for your Propel 2025.1 software:

1. Go to [Propel Licensing Form](#).
2. Follow the instructions step-by-step.
3. 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 invoked from the System Properties (Figure 4.1) of MS Windows accordingly pointing to the exact directory where you place license.dat. Before invoking Lattice Propel 2025.1, make sure the environment variable is correctly set.

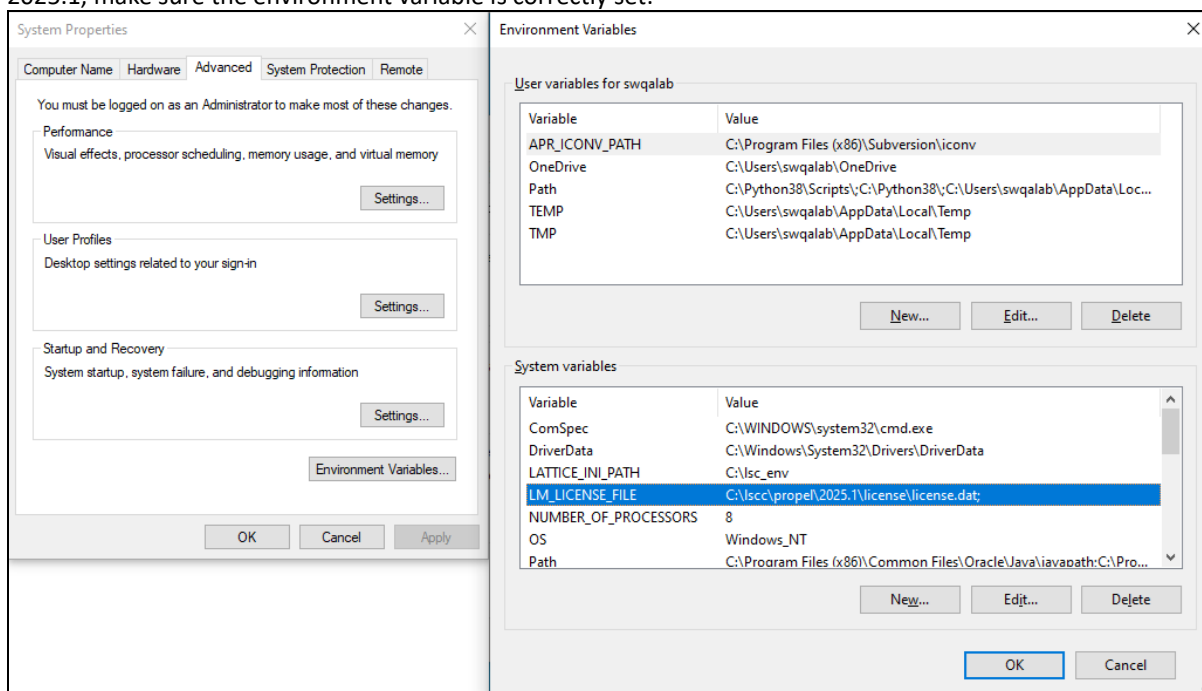


Figure 4.1. Environment Variables in System Properties Dialog

5. Running Propel 2025.1 Software

After Lattice Propel 2025.1 software is installed, you can open it by using either of the following two methods:

Invoking Propel 2025.1 from Start Menu

To invoke Propel 2025.1:

- In Windows 10/11, choose **Apps > Lattice Propel 2025.1 > Lattice Propel 2025.1**.
The Propel main window opens.

To invoke Propel Builder 2025.1:

- In Windows 10/11, choose **Apps > Lattice Propel 2025.1 > Lattice Propel Builder 2025.1**.
The Propel Builder main window opens.

Invoking Propel 2025.1 from Desktop Icon

To invoke Propel 2025.1:

- In Windows 10/11, double-click Lattice Propel 2025.1 icon from desktop.
The Propel main window opens.

To invoke Propel Builder 2025.1:

- In Windows 10/11, double-click Lattice Propel Builder 2025.1 icon from desktop.
The Propel Builder main window opens.

6. Installing and Uninstalling 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 10/11, choose **Apps > Lattice Propel 2025.1 > Install&Uninstall Cable Drivers**.

Driver(s) installation options (Figure 6.1):

- LSC Windows Parallel Port Driver — Supports device programming through the parallel port of your PC. The driver can be installed on Windows 10.
- LSC Windows USB Driver — Supports device programming through the USB port of your PC. The driver can be installed on 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 during subsequent installations.

- All Drivers — Supports all the above three drivers.



Figure 6.1. Driver(s) Installation Options

To install a driver:

1. In the Drivers Install/Uninstall dialog box (Figure 6.1), 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, June 2025

Section	Change Summary
All	Production release.



www.latticesemi.com