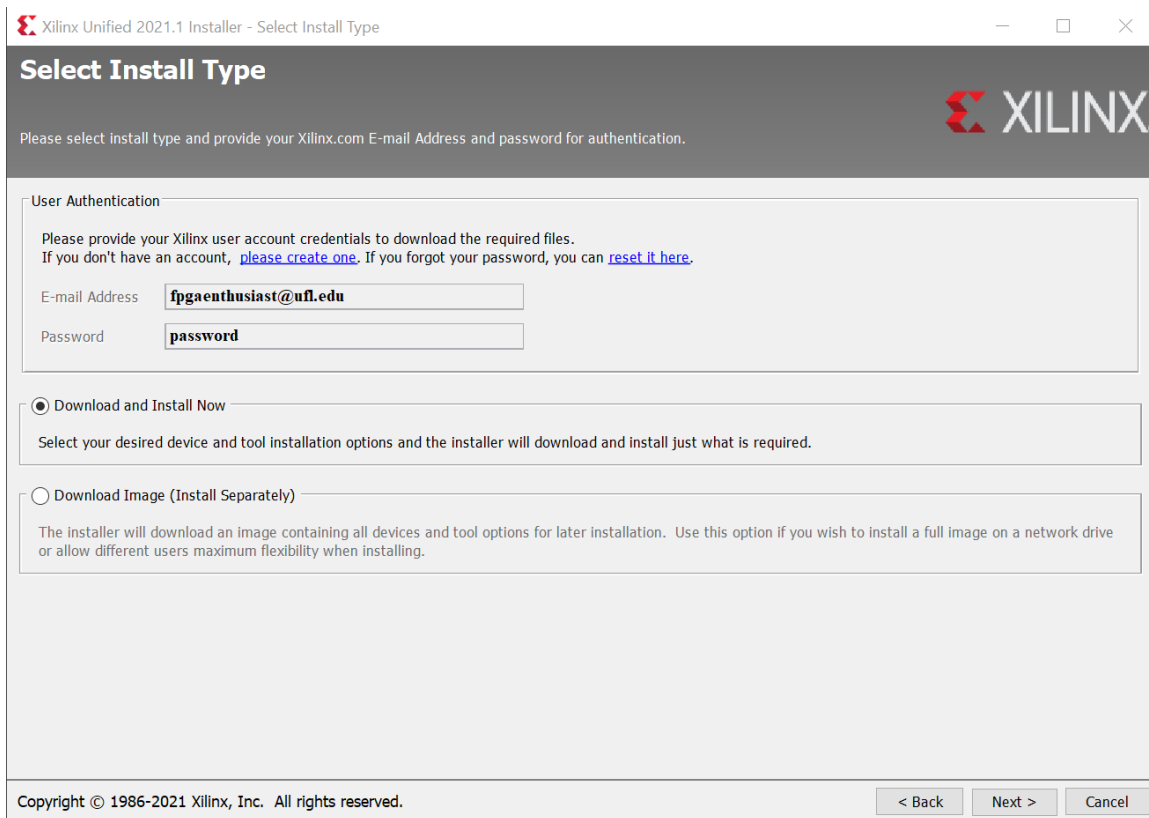


Vivado Installation Instructions

<https://www.xilinx.com/support/download.html>

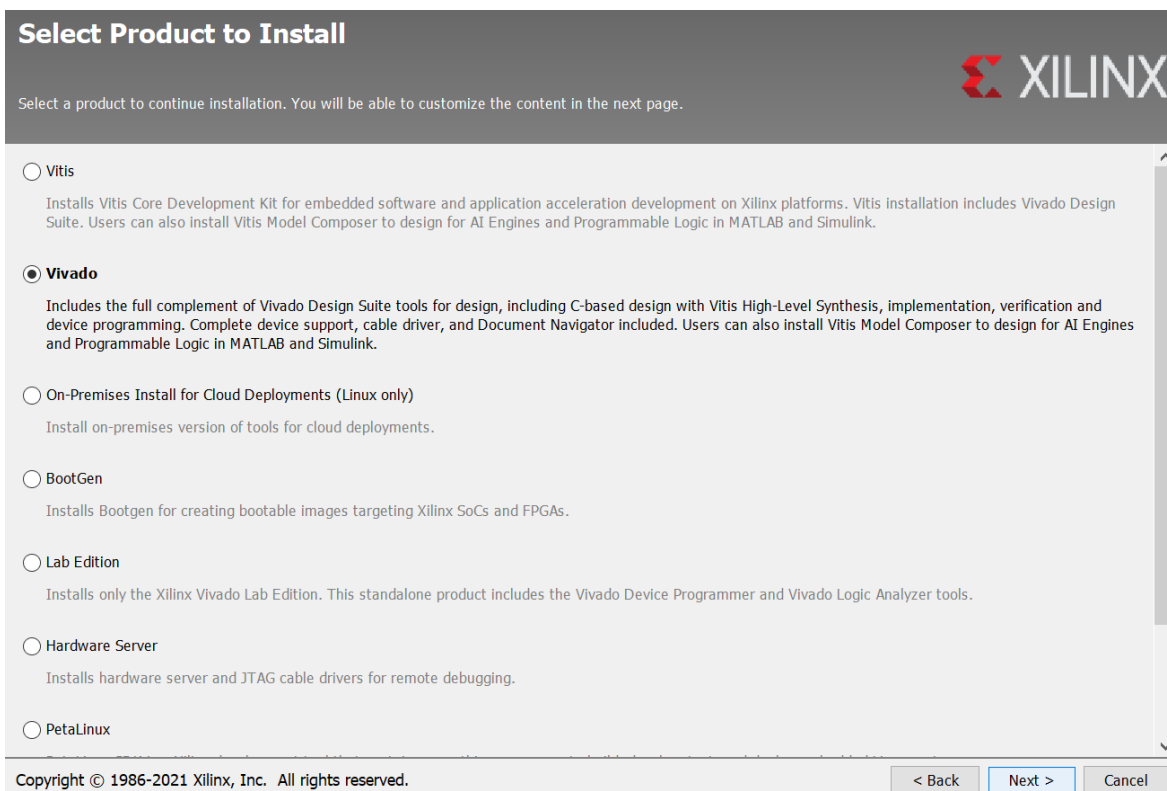
Make a Xilinx Student Account

Select: Xilinx Unified Installer 2021.1: Windows Self Extracting Web Installer



The screenshot shows the 'Select Install Type' window of the Xilinx Unified Installer 2021.1. The window has a title bar with the Xilinx logo and the text 'Xilinx Unified 2021.1 Installer - Select Install Type'. Below the title bar, there is a header section with the Xilinx logo and the text 'Select Install Type'. A message below the header says: 'Please select install type and provide your Xilinx.com E-mail Address and password for authentication.' The main content area is divided into two sections. The first section is 'User Authentication', which contains a message: 'Please provide your Xilinx user account credentials to download the required files. If you don't have an account, [please create one](#). If you forgot your password, you can [reset it here](#).' Below this message are two input fields: 'E-mail Address' with the value 'fpgaenthusiast@ufl.edu' and 'Password' with the value 'password'. The second section contains two radio buttons. The first radio button is selected and is labeled 'Download and Install Now'. Below it is a message: 'Select your desired device and tool installation options and the installer will download and install just what is required.' The second radio button is labeled 'Download Image (Install Separately)' and is not selected. Below it is a message: 'The installer will download an image containing all devices and tool options for later installation. Use this option if you wish to install a full image on a network drive or allow different users maximum flexibility when installing.' At the bottom of the window, there is a footer with the text 'Copyright © 1986-2021 Xilinx, Inc. All rights reserved.' and three buttons: '< Back', 'Next >', and 'Cancel'.

Figure 1: Support for every device not needed; saves space



The screenshot shows the 'Select Product to Install' window of the Xilinx Unified Installer 2021.1. The window has a title bar with the Xilinx logo and the text 'Xilinx Unified 2021.1 Installer - Select Product to Install'. Below the title bar, there is a header section with the Xilinx logo and the text 'Select Product to Install'. A message below the header says: 'Select a product to continue installation. You will be able to customize the content in the next page.' The main content area is divided into two sections. The first section is 'Vitis', which contains a message: 'Installs Vitis Core Development Kit for embedded software and application acceleration development on Xilinx platforms. Vitis installation includes Vivado Design Suite. Users can also install Vitis Model Composer to design for AI Engines and Programmable Logic in MATLAB and Simulink.' The second section is 'Vivado', which contains a message: 'Includes the full complement of Vivado Design Suite tools for design, including C-based design with Vitis High-Level Synthesis, implementation, verification and device programming. Complete device support, cable driver, and Document Navigator included. Users can also install Vitis Model Composer to design for AI Engines and Programmable Logic in MATLAB and Simulink.' Below this message are four radio buttons: 'On-Premises Install for Cloud Deployments (Linux only)', 'BootGen', 'Lab Edition', and 'Hardware Server'. The 'Vivado' radio button is selected. Below the 'Vivado' radio button is a message: 'Install on-premises version of tools for cloud deployments.' Below the 'BootGen' radio button is a message: 'Installs Bootgen for creating bootable images targeting Xilinx SoCs and FPGAs.' Below the 'Lab Edition' radio button is a message: 'Installs only the Xilinx Vivado Lab Edition. This standalone product includes the Vivado Device Programmer and Vivado Logic Analyzer tools.' Below the 'Hardware Server' radio button is a message: 'Installs hardware server and JTAG cable drivers for remote debugging.' Below the 'PetaLinux' radio button is a message: 'Installs PetaLinux for creating bootable images targeting Xilinx SoCs and FPGAs.' At the bottom of the window, there is a footer with the text 'Copyright © 1986-2021 Xilinx, Inc. All rights reserved.' and three buttons: '< Back', 'Next >', and 'Cancel'.

Select Edition to Install



Select an edition to continue installation. You will be able to customize the content in the next page.

☒ Vivado ML Standard

Vivado ML Standard Edition is the no-cost, device limited version of the Vivado ML Enterprise edition. Users can add Vitis Model Composer which is a Xilinx toolbox for MATLAB and Simulink to design for AI Engines and Programmable Logic. If you have been using Xilinx System Generator for DSP, you can continue development using Vitis Model Composer.

☐ Vivado ML Enterprise

Vivado ML Enterprise Edition includes the full complement of Vivado Design Suite tools for design, including C-based design with Vitis HLS, implementation, verification, and device programming. Complete device support, cable drivers, and documentation Navigator are included. Users can add Vitis Model Composer which is a Xilinx toolbox for MATLAB and Simulink to design for AI Engines and Programmable Logic. If you have been using Xilinx System Generator for DSP, you can continue development using Vitis Model Composer.

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Vivado ML Standard



Customize your installation by (de)selecting items in the tree below. Moving cursor over selections below provide additional information.

Vivado ML Standard Edition is the no-cost, device limited version of the Vivado ML Enterprise edition. Users can add Vitis Model Composer which is a Xilinx toolbox for MATLAB and Simulink to design for AI Engines and Programmable Logic. If you have been using Xilinx System Generator for DSP, you can continue development using Vitis Model Composer.

The installation tree diagram shows the following structure:

- Design Tools
 - ☒ Vivado Design Suite
 - ☒ Vivado
 - ☒ Vitis HLS
 - ☐ Vitis Model Composer(Xilinx Toolbox for MATLAB and Simulink. Includes the functionality of System Generator for DSP)
 - ☐ DocNav
- Devices
 - ☐ Production Devices
 - ☐ SoCs
 - ☐ 7 Series (limited support)
 - ☐ UltraScale (limited support)
 - ☐ UltraScale+ (limited support)
 - ☐ Versal ACAP
 - ☐ Engineering Sample Devices
- Installation Options
 - ☒ Install Cable Drivers (You MUST disconnect all Xilinx Platform Cable USB II cables before proceeding)
 - ☒ Enable WebTalk for Vivado to send usage statistics to Xilinx (Always enabled for Vivado ML Standard license)

Download Size: 24.95 GB
Disk Space Required: 77.61 GB

Reset to Defaults

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Cancel

Figure 2: This should be the minimum configuration you should need; ends up being ~45 GB

Accept License Agreements



Please read the following terms and conditions and indicate that you agree by checking the I Agree checkboxes.

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By checking "I Agree" below, or OTHERWISE ACCESSING, DOWNLOADING, INSTALLING or USING THE SOFTWARE, I AGREE on behalf of licensee to be bound by the agreement, which can be viewed by [clicking here](#).

☐ I Agree

WebTalk Terms And Conditions

By checking "I Agree" below, I also confirm that I have read [Section 13 of the terms and conditions](#) above concerning WebTalk and have been afforded the opportunity to read the WebTalk FAQ posted at <https://www.xilinx.com/products/design-tools/webtalk.html>. I understand that I am able to disable WebTalk later if certain criteria described in Section 13(c) apply. If they don't apply, I can disable WebTalk by uninstalling the Software or using the Software on a machine not connected to the internet. If I fail to satisfy the applicable criteria or if I fail to take the applicable steps to prevent such transmission of information, I agree to allow Xilinx to collect the information described in Section 13(a) for the purposes described in Section 13(b).

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Select Destination Directory



Choose installation options such as location and shortcuts.

Installation Options

Select the installation directory

C:\Xilinx

Installation location(s)

C:\Xilinx\Vivado\2021.1

C:\Xilinx\Vitis_HLS\2021.1

Download location

C:\Xilinx\Downloads\Vivado_2021.1

Disk Space Required

Download Size: 24.95 GB

Disk Space Required: 77.61 GB

Final Disk Usage: 44.85 GB

Disk Space Available: 307.04 GB

Select shortcut and file association options

☒ Create program group entri...

Xilinx Design Tools

☒ Create desktop shortcuts

☒ Create file associations

Apply shortcut & file association selections to

☒ Current user

☐ All users

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Figure 3: Would recommend keeping default installation directory; make sure directory doesn't have any spaces in it (some tools have issue with parsing spaces)

UNIFIED

Xilinx Installer

Installation Summary

Edition: Vivado ML Standard

Devices

- Production Devices (SoCs, 7 Series)

Design Tools

- Vivado Design Suite (Vivado, Vitis HLS)

Installation Options

- Enable WebTalk for Vivado to send usage statistics to Xilinx (Always enabled for Vivado ML Standard license)

Installation location

- C:\Xilinx\Vivado\2021.1
- C:\Xilinx\Vitis_HLS\2021.1

Download location

- C:\Xilinx\Downloads\Vivado_2021.1

Disk Space Required

- Download Size: 24.95 GB
- Disk Space Required: 77.61 GB
- Final Disk Usage: 44.85 GB



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Preferences

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Install

Cancel

Takes around 45 minutes with a decent internet connection.