

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

Xilinx Unified 2021.1 Installer - Select Install Type

Select Install Type

Please select install type and provide your Xilinx.com E-mail Address and password for authentication.

User Authentication

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](#).

E-mail Address:

Password:

Download and Install Now

Select your desired device and tool installation options and the installer will download and install just what is required.

Download Image (Install Separately)

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.

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

Select Product to Install

Select a product to continue installation. You will be able to customize the content in the next page.

Vitis

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.

Vivado

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.

On-Premises Install for Cloud Deployments (Linux only)

Install on-premises version of tools for cloud deployments.

BootGen

Installs Bootgen for creating bootable images targeting Xilinx SoCs and FPGAs.

Lab Edition

Installs only the Xilinx Vivado Lab Edition. This standalone product includes the Vivado Device Programmer and Vivado Logic Analyzer tools.

Hardware Server

Installs hardware server and JTAG cable drivers for remote debugging.

PetaLinux

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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.

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

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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, 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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I Agree

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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)

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



Takes around 45 minutes with a decent internet connection.