

# Installing the Xilinx Blockset for Simulink

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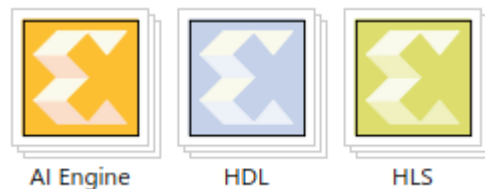
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The Xilinx blockset for MATLAB & Simulink is a single toolbox that unifies **Model Composer** (HLS), **System Generator for DSP** (HDL) as well as the Xilinx AI Engine. Since recently, the Xilinx blockset is simply called *Vitis Model Composer*.



Xilinx Blockset toolbox for MATLAB Simulink

With each release, Xilinx Blockset (now called Vitis Model Composer) updates its compatibility matrix, adding support for the latest MATLAB versions while deprecating older ones. For example, Vitis Model Composer 2025.2 officially supports MATLAB releases R2024a through R2025b.

## How much does the Xilinx blockset for Simulink cost?

As of 2026, the Xilinx blockset (Vitis Model Composer) costs \$995 for a node-locked license and \$1995 for a floating license. However, a free 90-day evaluation license can be generated at [AMD Product Licensing Site](#).

# Downloading and installing the Xilinx blockset for Simulink

The Xilinx blockset for Simulink is downloaded and installed with Vivado, using the Xilinx unified installer, as explained in the [installing Xilinx Vivado Design Suite](#) page.

If Vivado is already installed on your computer, the Xilinx toolbox can be installed using the Xilinx tool "Add Design Tools or Devices", which should have been automatically installed with Vivado.

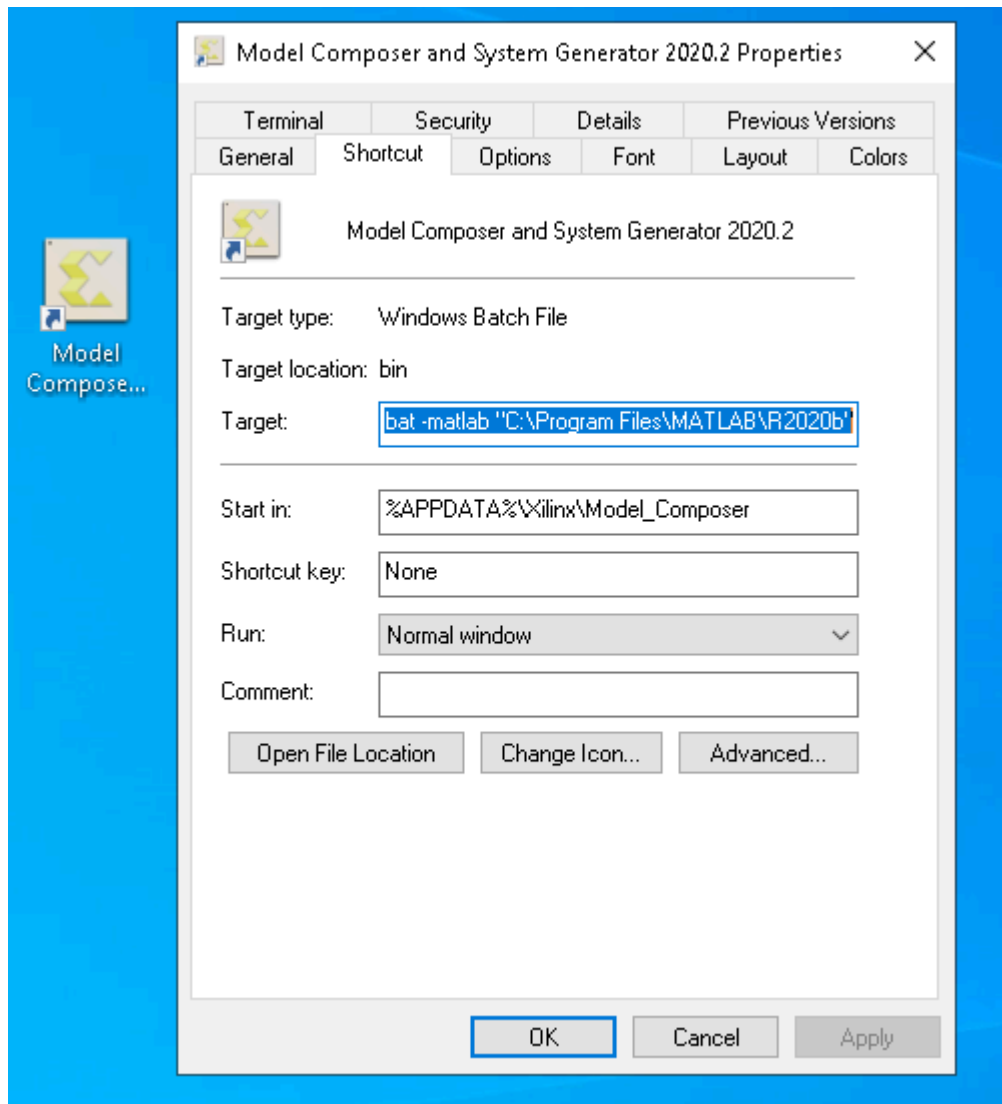
## Launching Model Composer with another MATLAB Simulink version

To use the Xilinx blockset, the desktop shortcut "Model Composer and System Generator" should be used. It will launch a new MATLAB session and load the Model Composer and System Generator blocksets for Simulink.

If multiple concurrent MATLAB Simulink installations are present on the computer, the shortcut will launch the latest version of MATLAB Simulink available by default. It can cause problems if the latest version of Simulink is not compatible with the Xilinx blockset (for instance Vitis Model Composer 2020.2 is not compatible with MATLAB R2021a). However, it is possible to manually change which version of MATLAB Simulink System Generator will use.

To select the MATLAB Simulink version to launch:

1. Right-click on the "Model Composer and System Generator" shortcut on the desktop
2. Go under the Shortcut tab
3. Edit the Target field to add `-matlab "C:\Program Files\MATLAB\Rxxxxx"`  
For instance `C:\Xilinx\Model_Composer\2020.2\bin\xmc_sysgen.bat -matlab "C:\Program Files\MATLAB\R2020b"`



To learn more on how to use the Xilinx blockset to generated FPGA code, please refer to the [Model Composer](#) and [System Generator](#) pages.