

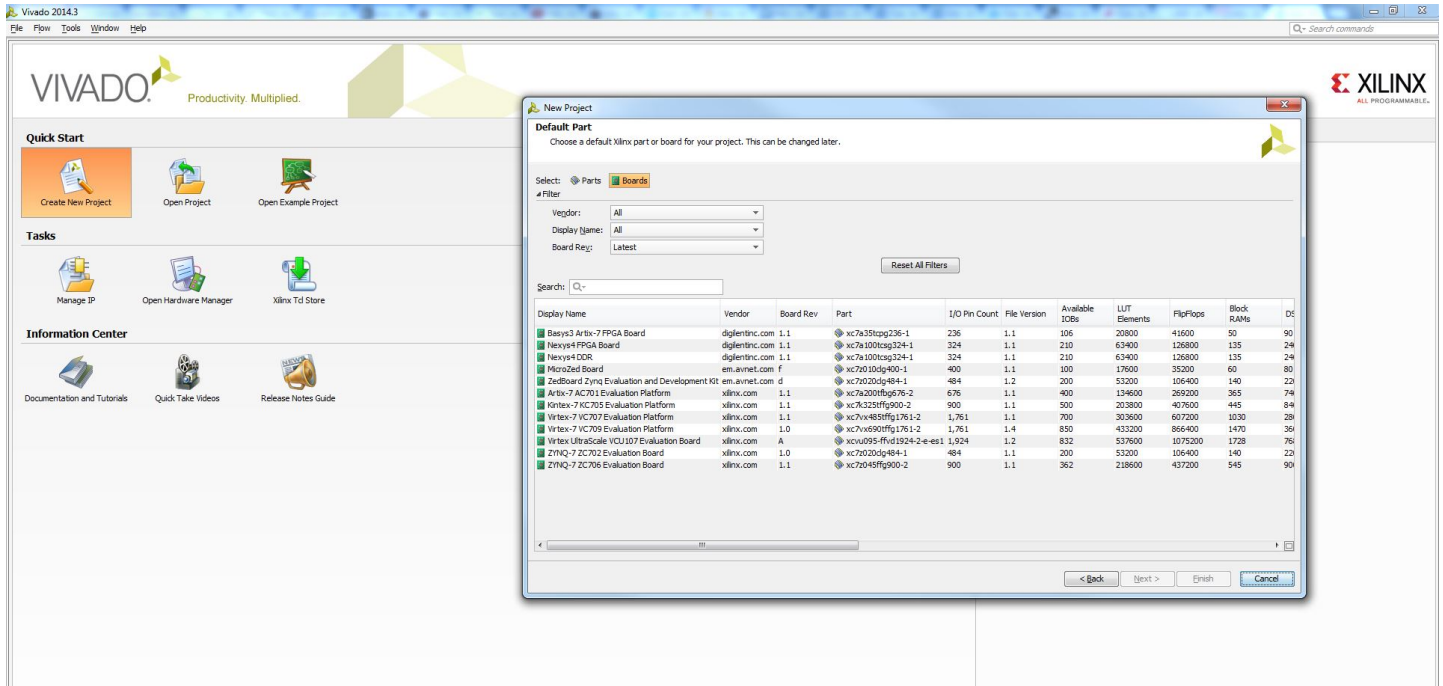


Vivado Version 2015.1 and Later Board File Installation

Board Files: Download <https://github.com/Digilent/vivado-boards/archive/master.zip>

Description

This guide will help you obtain Vivado Board Files for the Nexys 4, Nexys 4 DDR, Basys 3, Artix, Nexys Video, and Zybo FPGA Boards.



What you need before proceeding with this guide

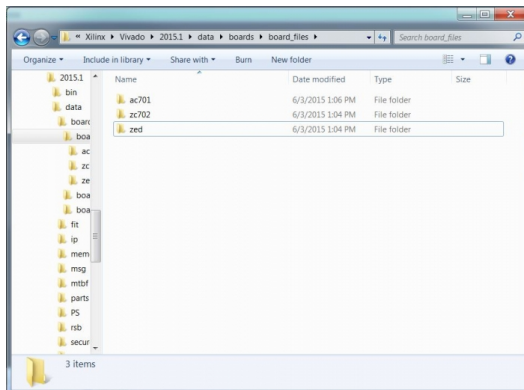
- Xilinx Vivado 2015.1 or later.

Follow this Wiki guide on how to install and activate Vivado on your PC. [Installing Vivado](#)

What are Board Files and why do you need them

After installing Vivado, the default installation directory on your drive will contain a folder called **board_files**. If Vivado is installed in the C drive (usually recommended), then the **board_files** folder can be found here: **C:\Xilinx\Vivado\2015.1\data\boards**.

By default this folder contains XML files for different FPGA boards manufactured by Xilinx.

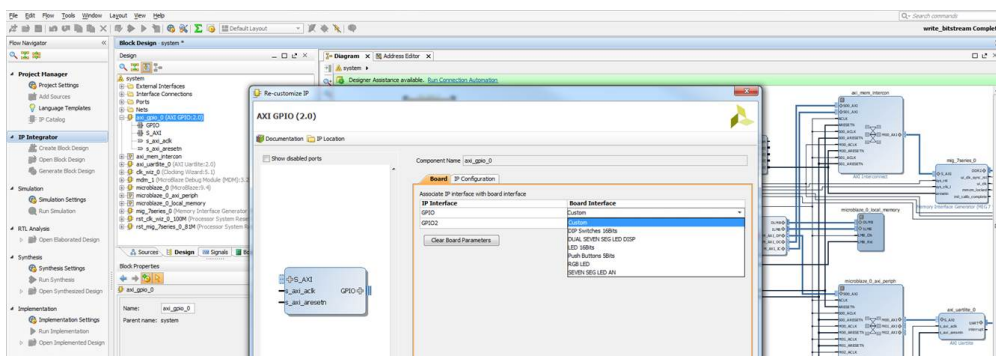


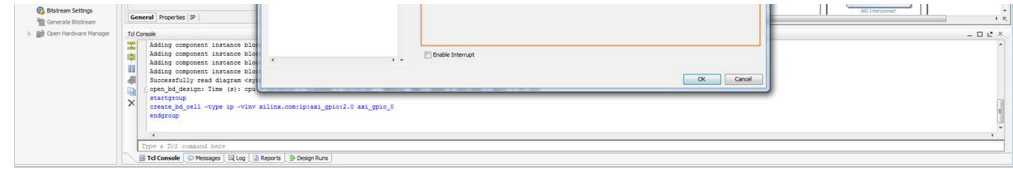
XML files define different interfaces on the board. Interfaces such as Slide Switches, Push Buttons, LEDs, USB-UART, DDR Memory, Ethernet etc.

Digilent has created XML files for the Artix 7 FPGA boards:

- Basys 3
- Nexys 4
- Nexys 4 DDR
- Artix
- Nexys Video
- Zybo

In the AXI GPIO IP customization window, you will be able to assign different interfaces that are available on your selected board to a specific GPIO IP block.



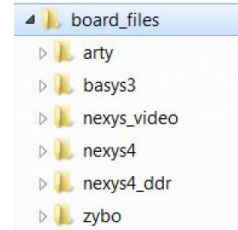


Installation

Download and extract this Zip file: <https://github.com/Digilent/vivado-boards/archive/master.zip> <https://github.com/Digilent/vivado-boards/archive/master.zip>

You can also check out the repository for the board files on github located here <https://github.com/Digilent/vivado-boards/>

This zip file will contain a folder called *new/board_files*. Save this in your user documents folder. We will copy this *board_files* folder, navigate to the **board_files** folder inside the Vivado Installation directory, and merge them both.



- Copy the contents of the *board_files* folder
 - Navigate to the **board_files** folder in the Vivado Installation directory (C:\Xilinx\Vivado\2015.1\data\boards\board_files)
 - Paste the contents into the board_files folder
 - Restart Vivado
- The newly added files will each contain a sub-folder for the current board revision. This sub-folder contains the respective XML files for each FPGA board.
- The sub-folder for the **nexys4_ddr** will contain an additional file called **mig.prj** which is the Xilinx Memory Interface Generator description file for customizing the DDR2 component on the **Nexys 4 DDR**.
- You are now ready to start a new IP Integrator based Vivado project for the Digilent Nexys 4, Nexys 4 DDR and Basys 3 FPGA Boards.