

## Vivado2017.4 Installation

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### 1 Document Introduction

This document introduce how to install XILINX Vivado2017.4

### 2 Vivado Introduction

The Vivado Design Suite is an integrated design environment released by FPGA manufacturer Xilinx (XILINX) in 2012. ISE is a previous generation development tool from Vivado and has been discontinued since version 14.7 (corresponding to Vivado 2013.3). Vivado is a next-generation development tool for ISE that runs faster and converges on complex designs. Vivado software can be downloaded from the XILINX official website ([www.xilinx.com](http://www.xilinx.com)) or downloaded from the document we provided (or send email to [alinx@aithtech.com](mailto:alinx@aithtech.com)). The installation of the Vivado 2017.4 software is described below.

The screenshot shows the Xilinx website's Downloads page. The URL in the browser is <https://www.xilinx.com/support/download.html>. The page features the Xilinx logo and navigation tabs for Applications and Products. Below the navigation, there's a breadcrumb trail: Xilinx - All Programmable > Support > Downloads. The main heading is 'Downloads'. There are two buttons: 'Installation Overview Video' and 'Doc Na'. Below these, there are three tabs: Vivado, Embedded Development, and SDx Development Environments. The Vivado tab is selected. Under the Vivado tab, there's a 'Version' section with a list of versions: 2017.4 (highlighted), 2017.3, 2017.2, 2017.1, 2016.4, and Archive. To the right of the version list, there's a section titled 'Vivado General Information - 20' with a sub-section 'Important Information' that states: 'Using Vivado 2017.4 requires upgrading your license to the Flex 11.14.1 versions listed below. Please refer to the last release that will support Solaris operating system. Vivado 2017.4 will continue to support Windows and Linux operating systems.'

### 3 Installation steps

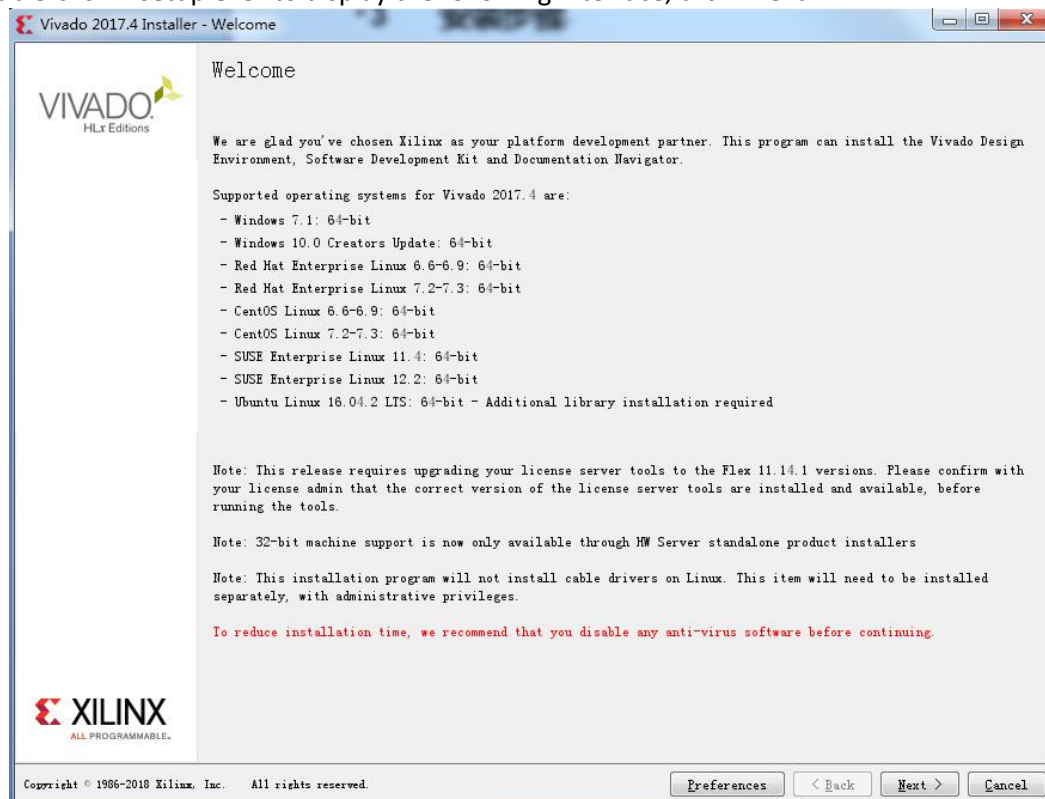
#### 3.1 Vivado 2019.1 Installation

In the tutorial, the vivado2017.4 installation process is performed under win7 64-bit. The "xsetup.exe" installation file is found in the decompressed vivado software. **Note: The installation package cannot be extracted to a directory with a Chinese path.**

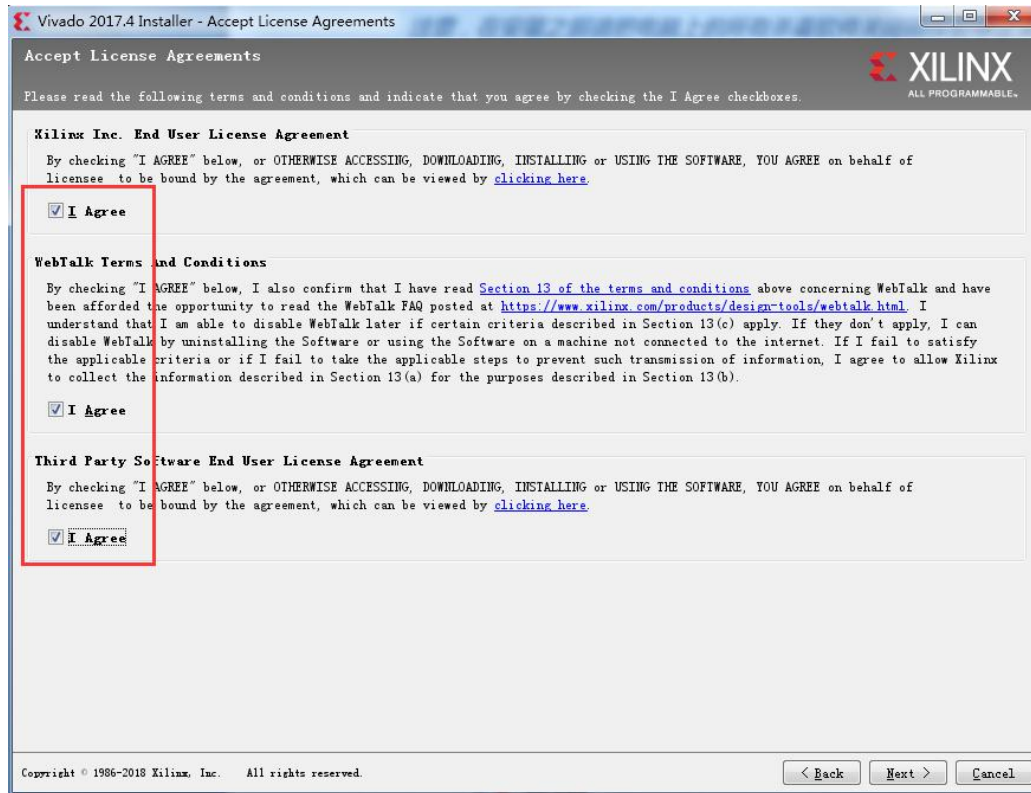
*Note: Please turn off all anti-virus software on your computer before installation to ensure normal installation.*

concr140.dll	2017/12/16 12:13	应用程序扩展	240 KB
msvc140.dll	2017/12/16 12:13	应用程序扩展	433 KB
ucrtbase.dll	2017/12/16 12:13	应用程序扩展	880 KB
vccorlib140.dll	2017/12/16 12:13	应用程序扩展	265 KB
vcruntime140.dll	2017/12/16 12:13	应用程序扩展	84 KB
xsetup	2017/12/16 12:13	文件	3 KB
xsetup.exe	2017/12/16 11:58	应用程序	435 KB

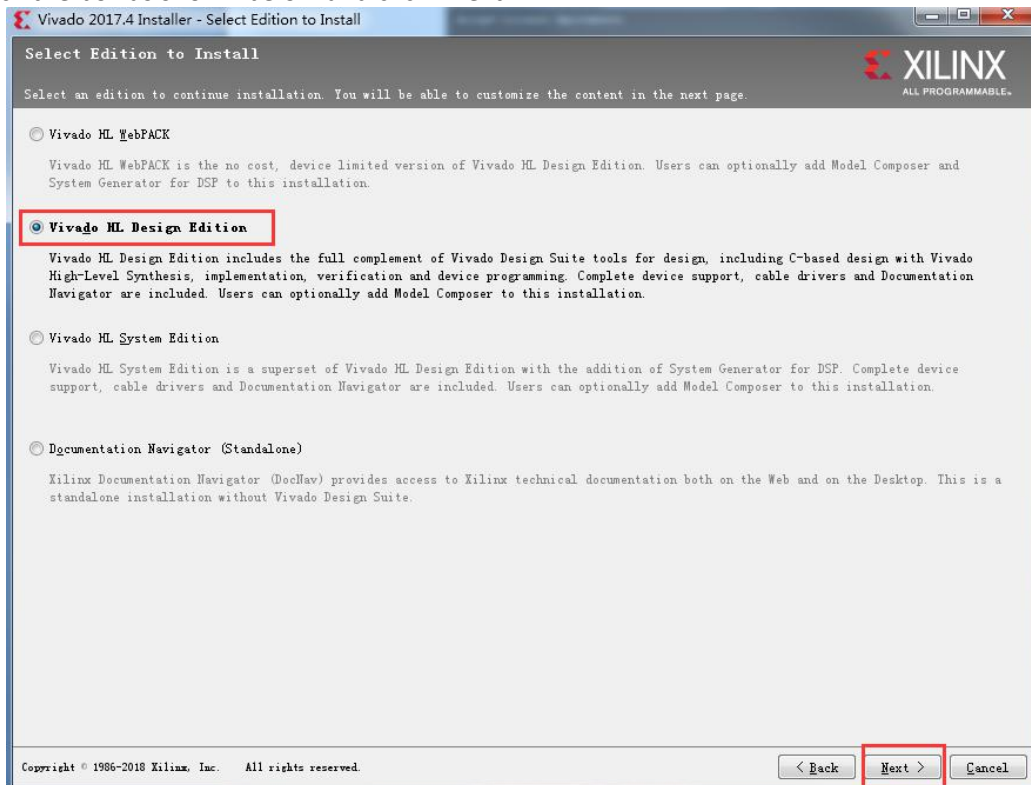
1. Double-click "xsetup.exe" to display the following interface, click "Next"



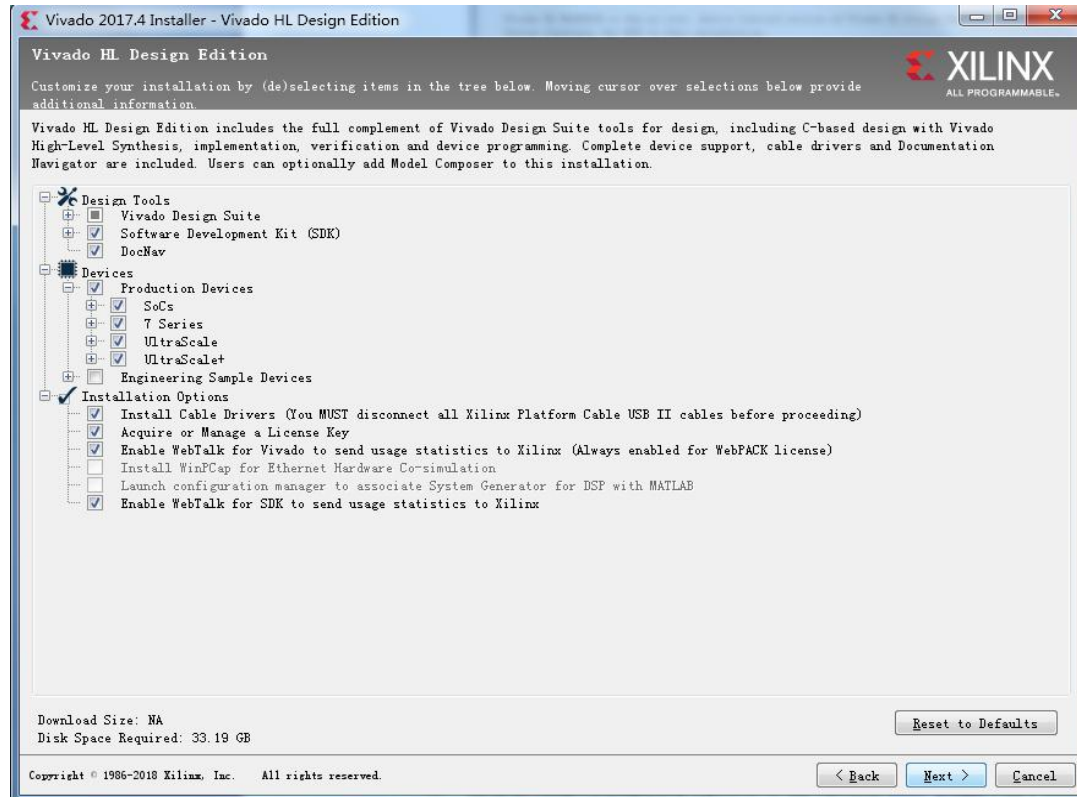
2. Select I Agree (as shown below) and click "Next".



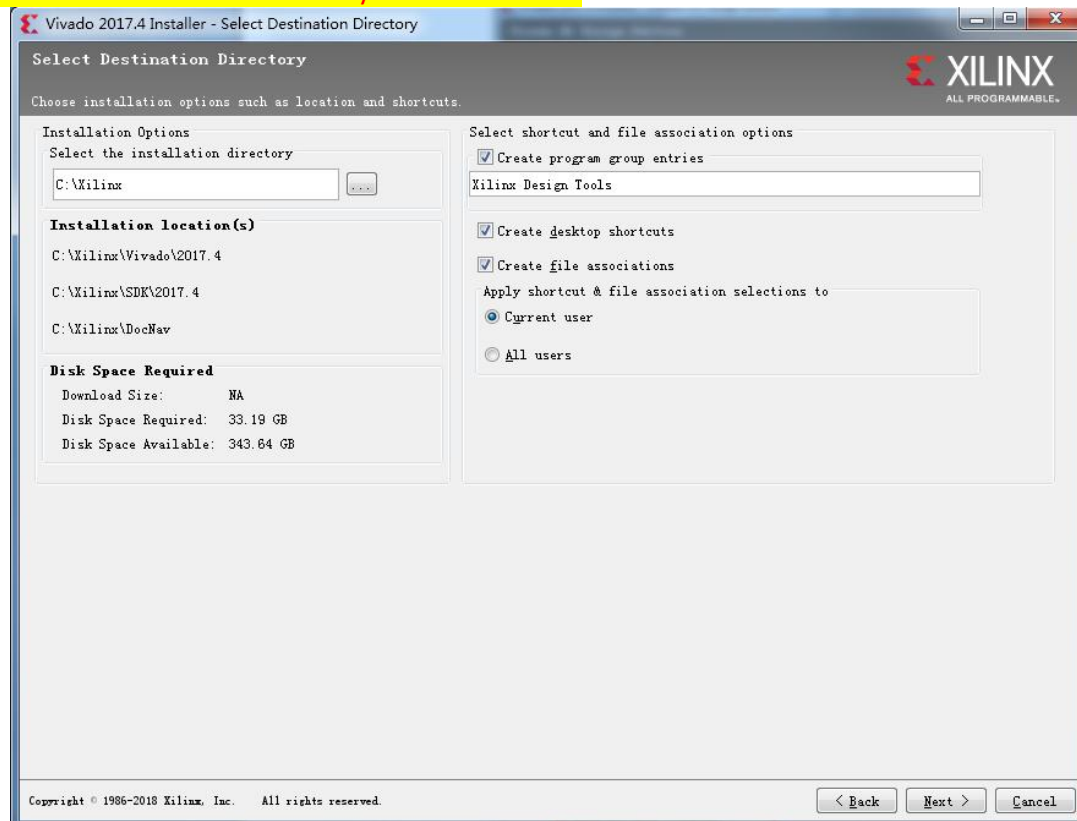
3. Check the box as shown below and click "Next"



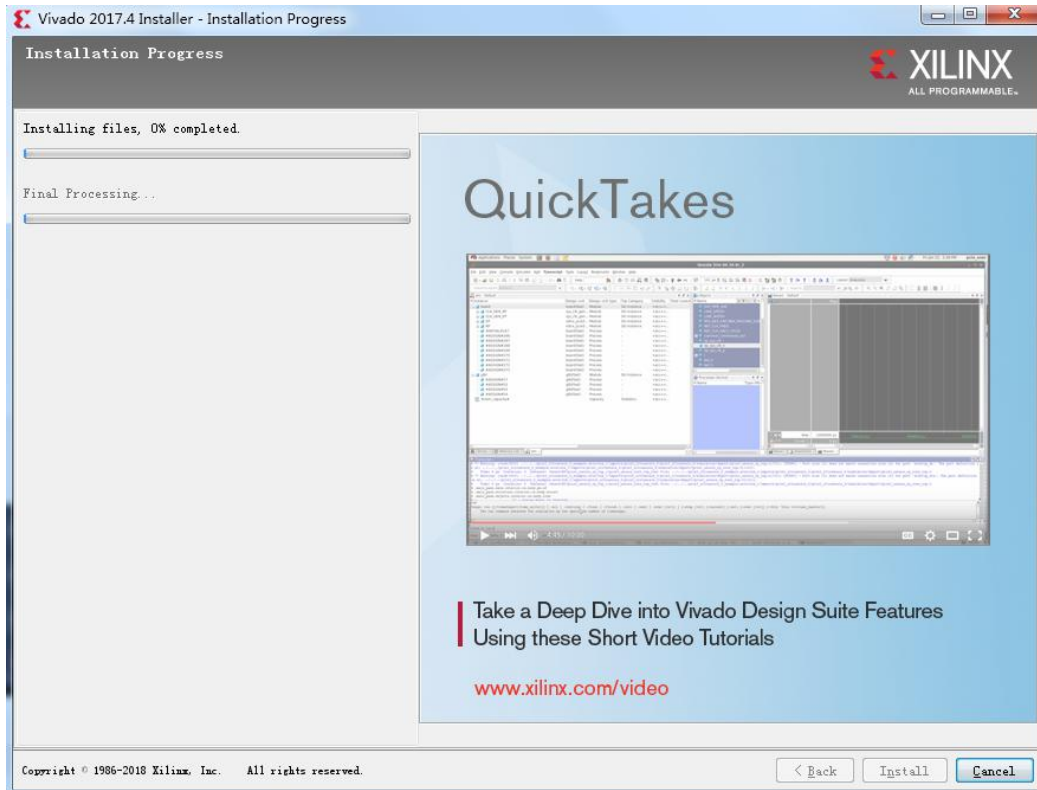
4. Keep the default tick option here, click "Next"



5. Make sure there is enough space in the selected installation path, keep the default, click "Next". If you need to modify the path, you cannot have special characters such as Chinese characters and spaces. At the same time, the user name of the computer cannot have Chinese, otherwise it will not run correctly after installation.



- Keep the default interface in the following interface, the installation takes a while, please be patient.



- After the following interface pops up during the installation process, click "OK" to continue.

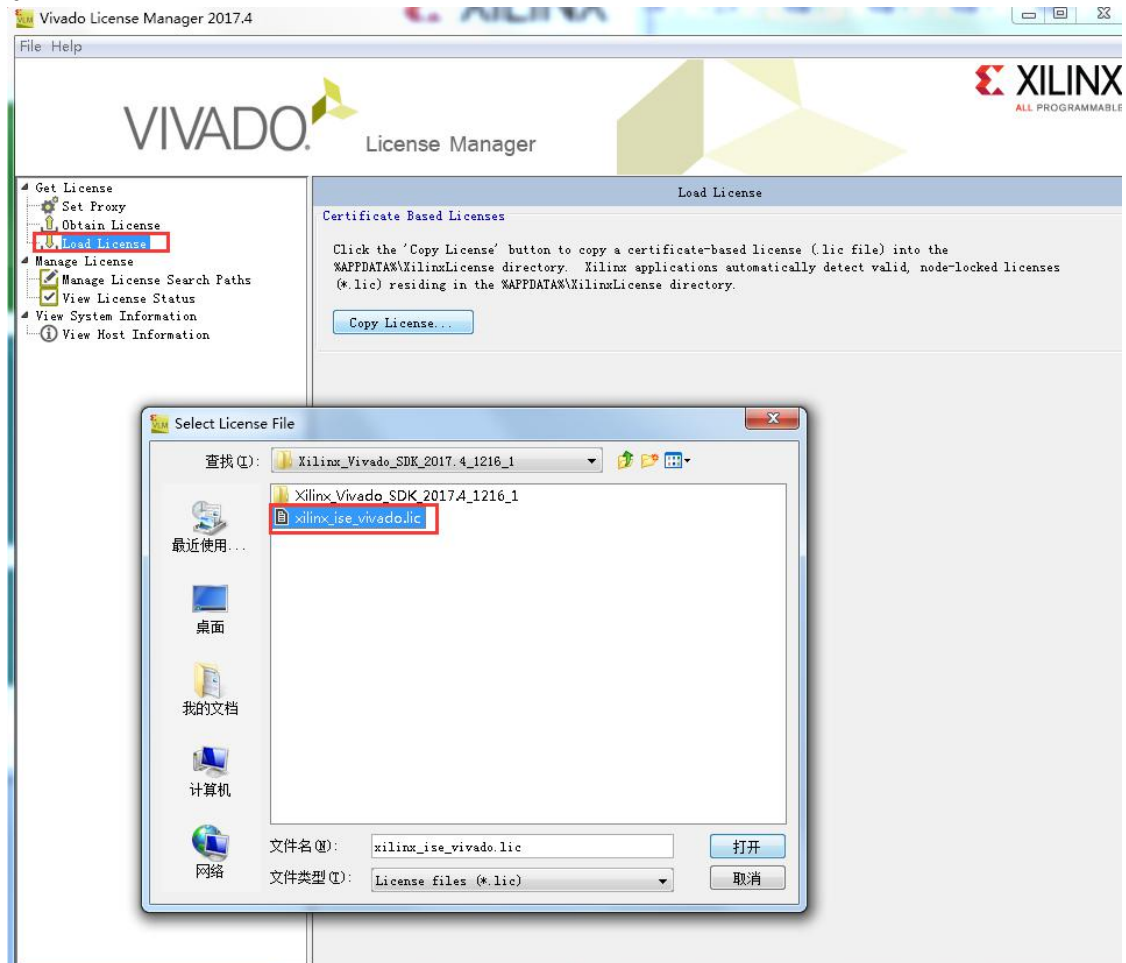


- After the following interface pops up during the installation process, click "Install" to continue.

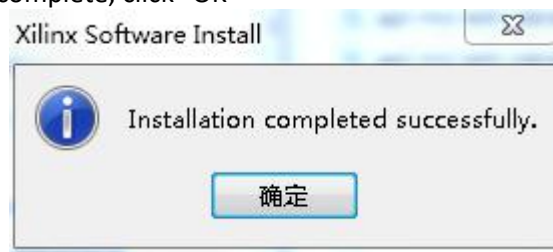




9. Install the license and find the xilinx\_ise\_vivado.lic file in document provide (if not have, send email to [rachel.zhou@alinx.com.cn](mailto:rachel.zhou@alinx.com.cn) ) to install it.



10. After the installation is complete, click "OK"



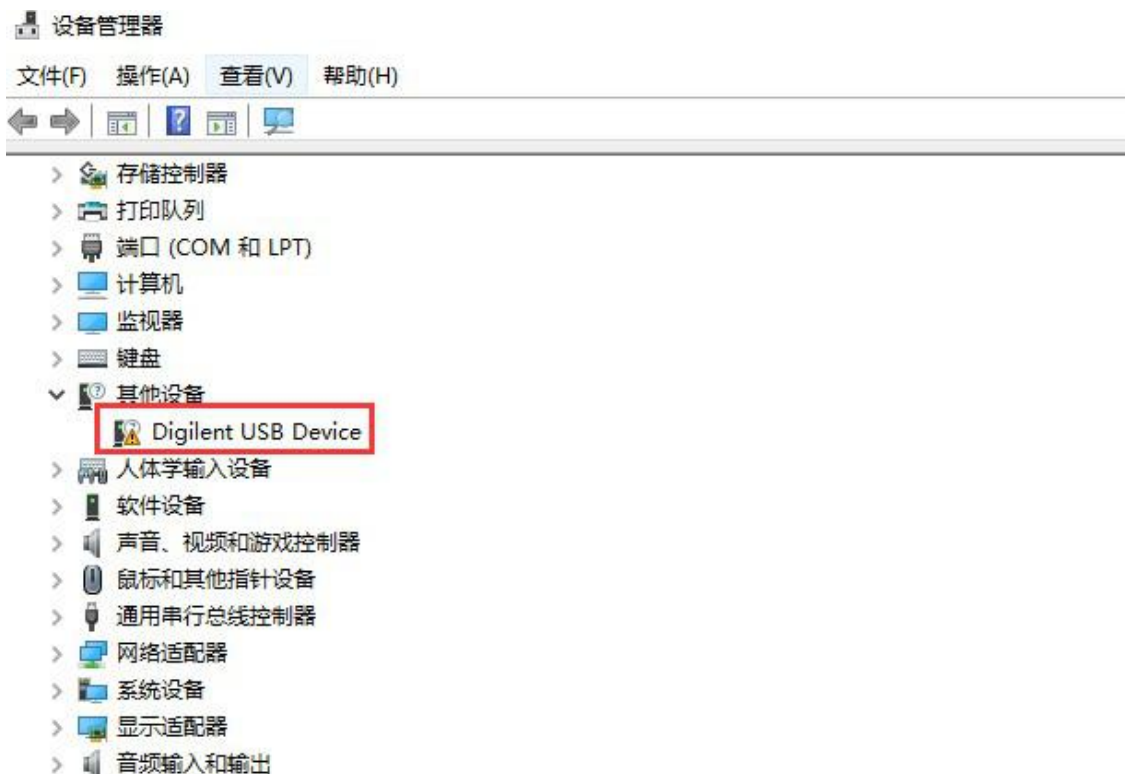
11. The following icon will appear on the desktop after the installation is complete.



12. At this point, VIVADO can work normally after installation, because the download driver of the FPGA is also automatically installed, which can be found in the device manager. The following figure shows the success and failure of the driver installation. When the downloader driver fails to install. After that, please refer to Section 3.2 for installation.



The driver was successfully installed.



Driver installation failed

### 3.2 Downloader driver installation

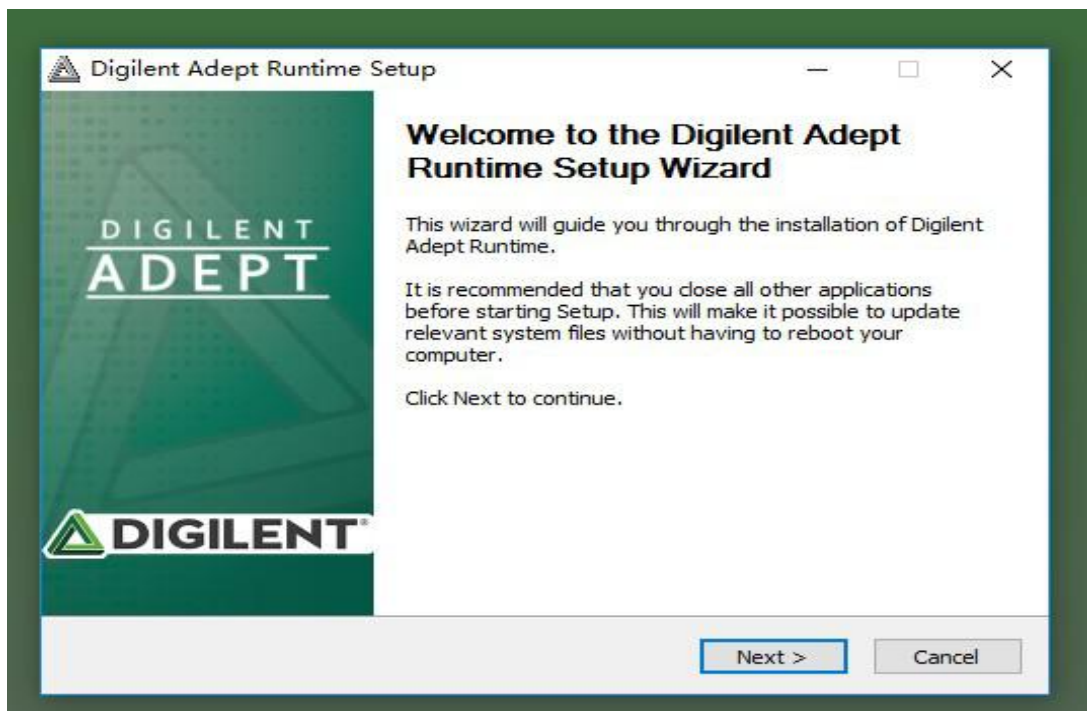
- 1) Locate the "install\_digilent.exe" application in the software installation directory path. Here the default installation path is as shown in the figure below.

Xilinx > Vivado > 2019.1 > data > xicom > cable_drivers > nt64 > digilent			
名称	修改日期	类型	大小
install_digilent.exe	2019/5/25 0:05	应用程序	19,289 KB

- 2) After double-clicking install\_digilent.exe, the installation interface will pop up, click "Yes" to start the installation

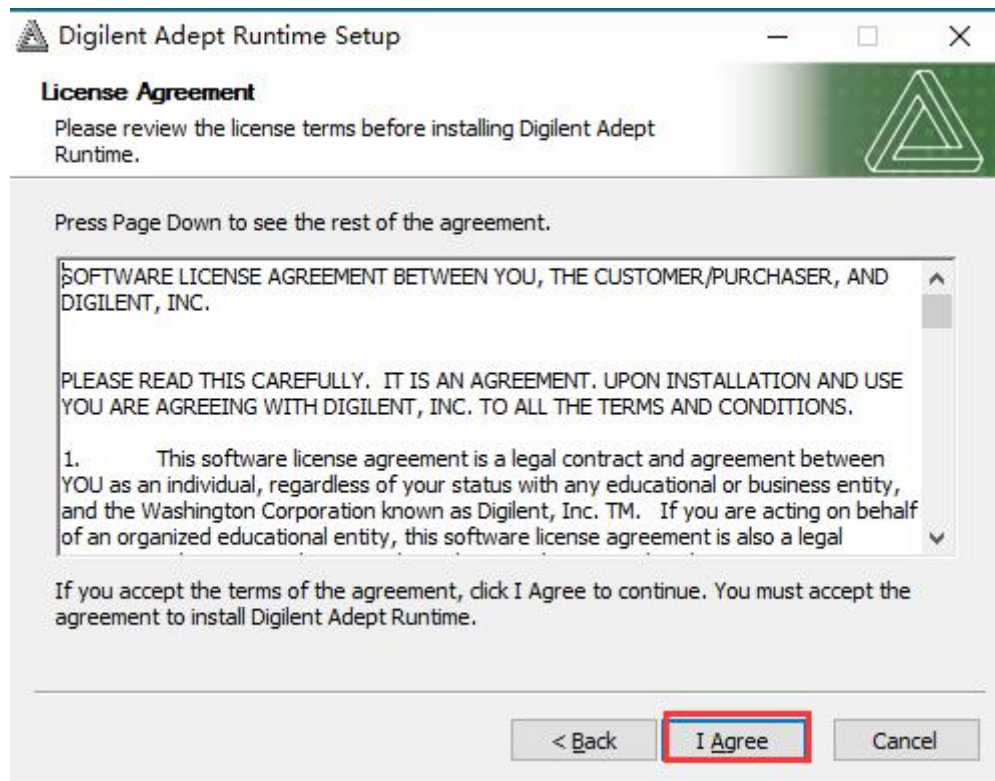


- 3) Click "Next"

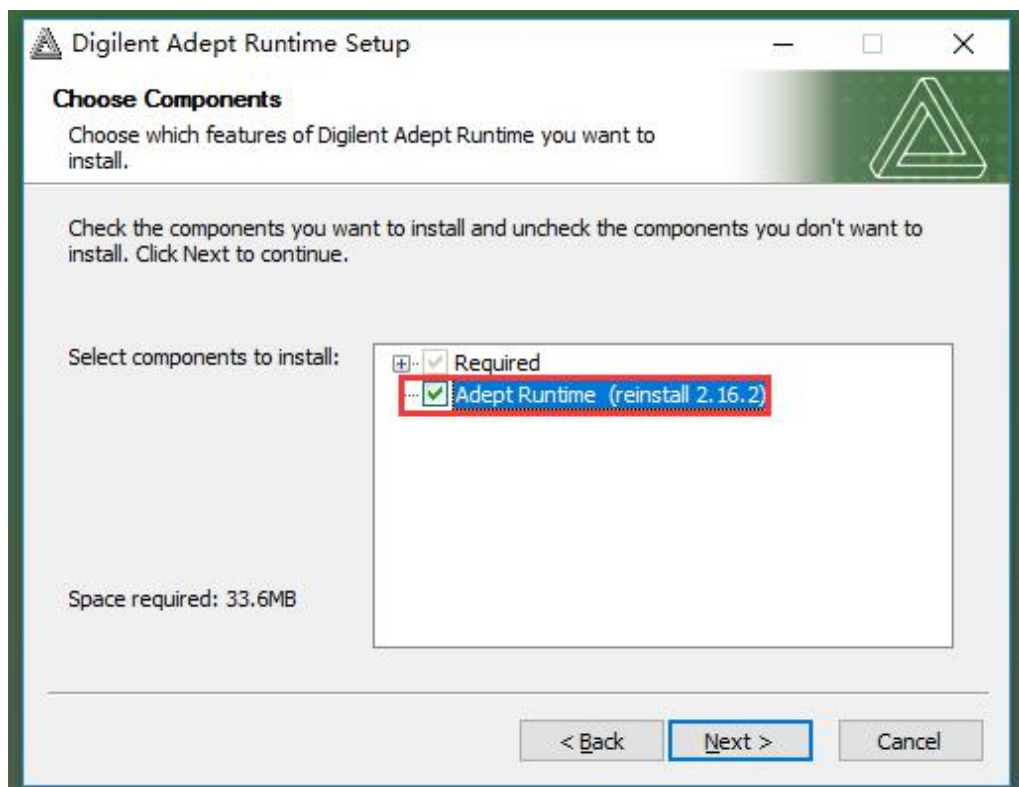




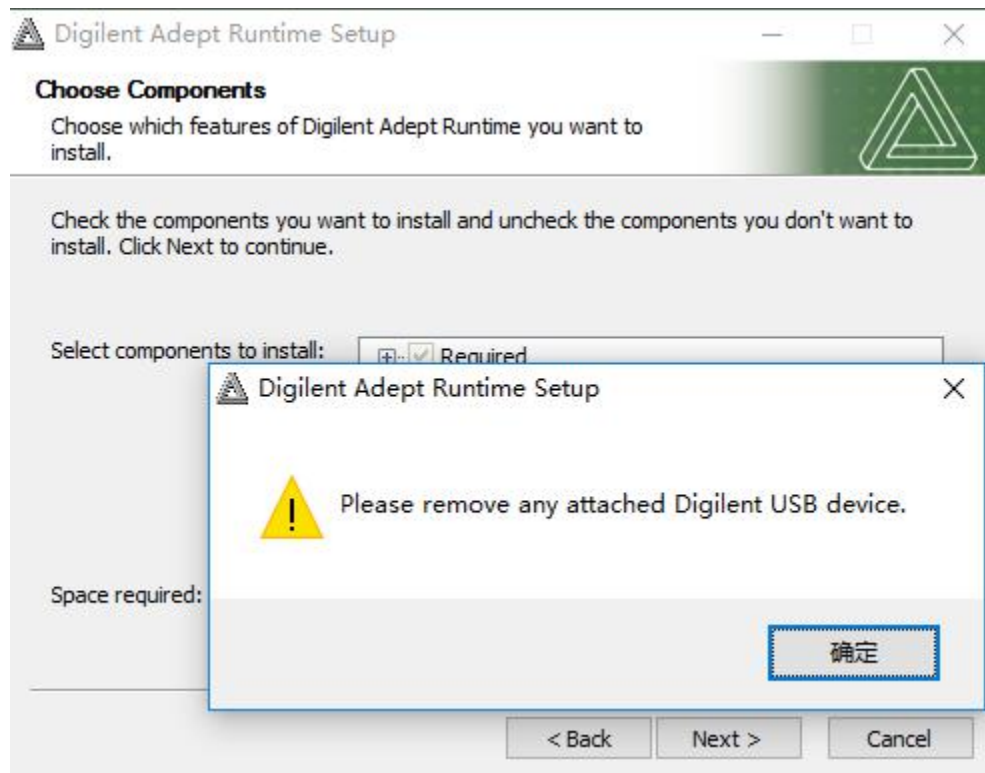
4) Click "I Agree"



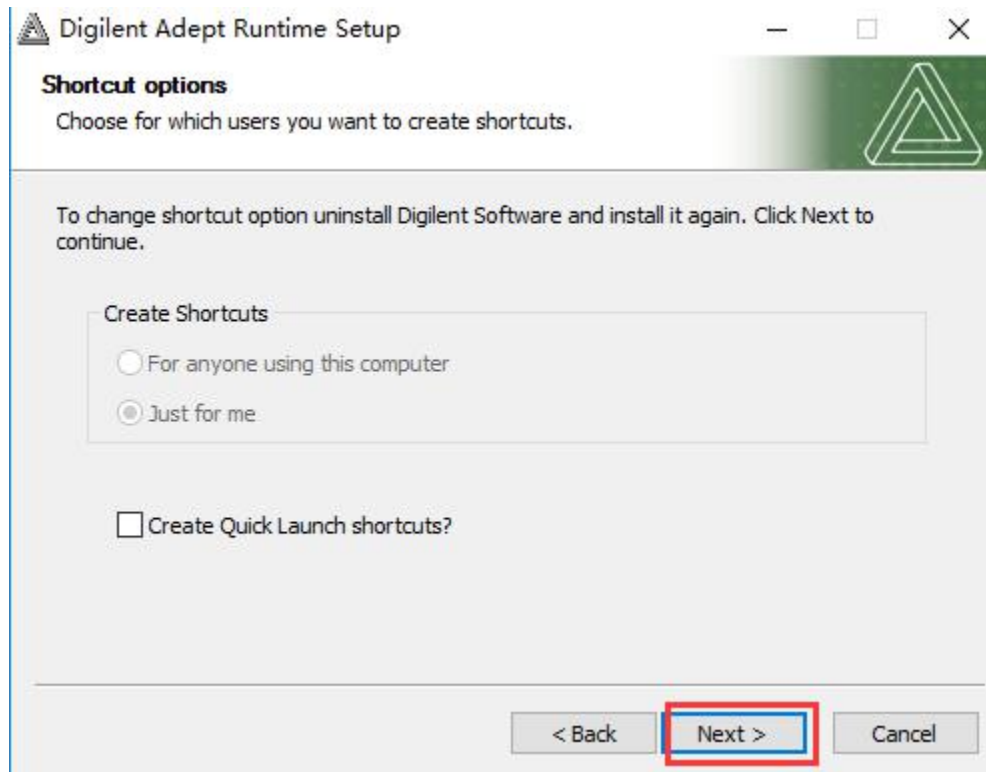
5) Check the options in the image below and click "Next"



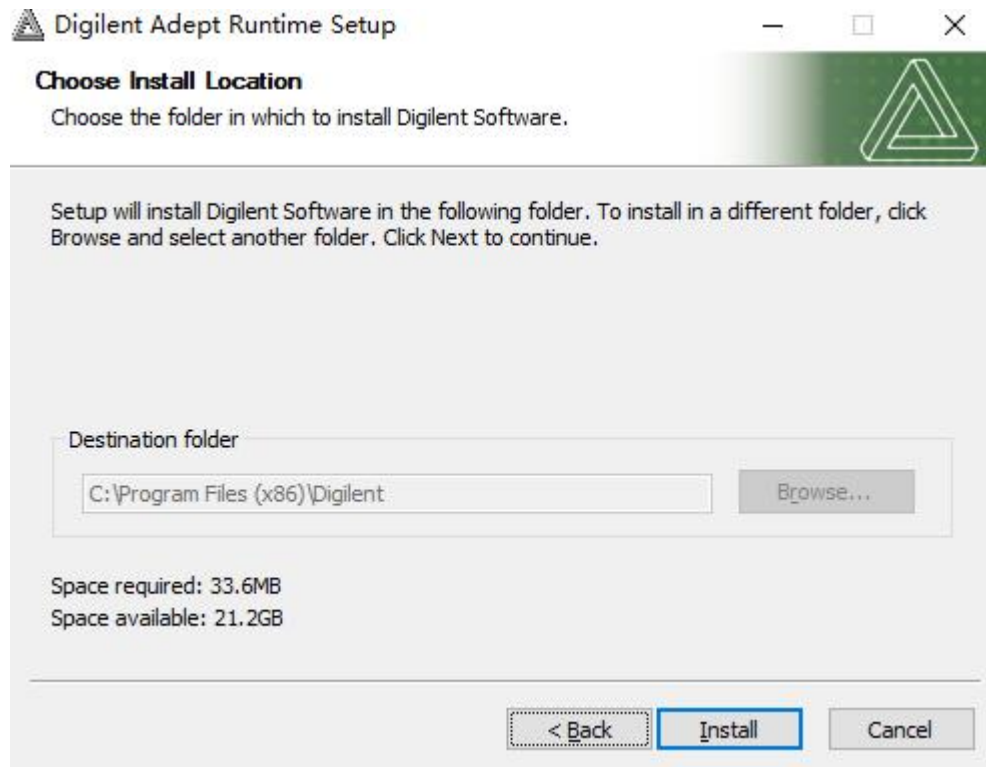
- 6) Prompt you to unplug the Xilinx USB Cable, confirm that the downloader of the USB cable connected to your computer is unplugged, click "OK"



- 7) The default setting here, do not create a shortcut, click "Next"



- 8) Click the "Install" button



- 9) Until the installation is complete, click on "finish".



- 10) Connect the computer and downloader with the USB cable. You can find the USB Serial Converter device in the device manager. As shown in the figure below, the driver is installed.

