

Quartus II 11.0 Development Software Installation

The CD-ROM is equipped with the relevant development board software, which is recommended. In the technical discussion, it is recommended to use a unified software version as much as possible to facilitate communication between everyone and solve technical problems. The software we recommend is as follows:

Quartus 11.0: Mainly used for compiling, synthesizing, downloading; (required)

Nios II 11.0: SOPC integrated development environment; (if you don't learn Nios development for the time being, you don't need to install it)

In addition, provide a network download address connection.

`ftp://ftp.altera.com/outgoing/release/11.0_quartus_windows.exe` 1.01GB

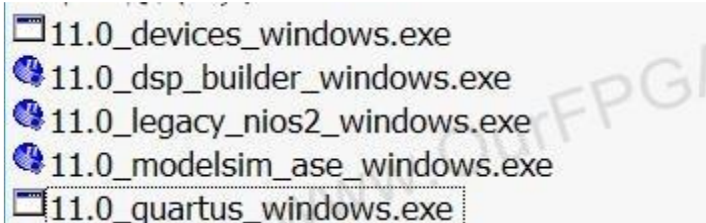
`ftp://ftp.altera.com/outgoing/release/11.0_devices_windows.exe` 3.92GB

`ftp://ftp.altera.com/outgoing/release/11.0_legacy_nios2_windows.exe` 142MB

Note: Quartus II does not support Chinese very well. The software installation location, user design projects, etc. cannot carry Chinese. All file names and directory names with Chinese cannot be recognized, including decompressing files to "My Documents", "Desktop", etc., may not be installed properly.

Quartus 11.0 Installation Method

You can follow step by step operation, first, install 11.0_quartus_windows.exe, see the files in the CD, as shown in Figure 4.1.

A screenshot of a CD-ROM's file explorer showing five .exe files. The files are: 11.0_devices_windows.exe, 11.0_dsp_builder_windows.exe, 11.0_legacy_nios2_windows.exe, 11.0_modelsim_ase_windows.exe, and 11.0_quartus_windows.exe. The last file is highlighted with a dashed border. To the right of the files, their sizes and types are listed in a table.

11.0_devices_windows.exe	4,114,887 KB	应用程序
11.0_dsp_builder_windows.exe	58,469 KB	应用程序
11.0_legacy_nios2_windows.exe	142,369 KB	应用程序
11.0_modelsim_ase_windows.exe	349,407 KB	应用程序
11.0_quartus_windows.exe	1,032,363 KB	应用程序

Figure 4.1 Screenshot of the software installation package attached to the CD

After double-clicking, a dialog box will pop up after a while, as shown in Figure 4.2, prompting to prepare to decompress.

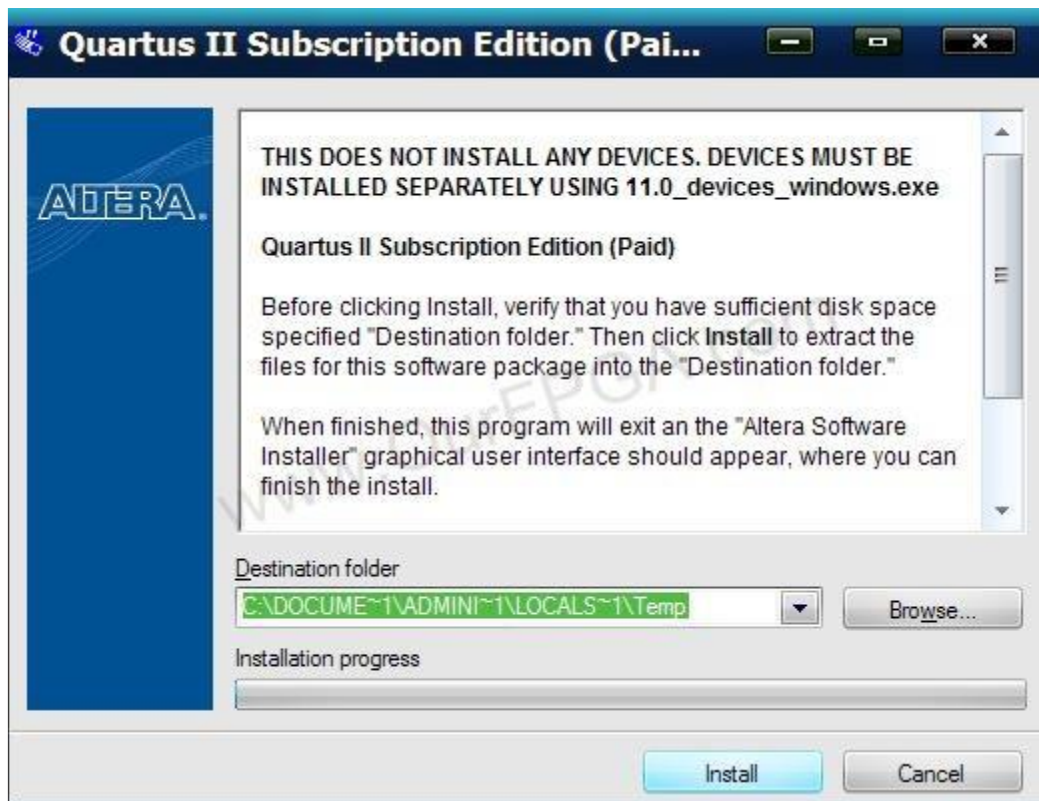


Figure 4.2 Quartus II 11.0 Installation Process

Click Install to start decompression, as shown in Figure 4.3.

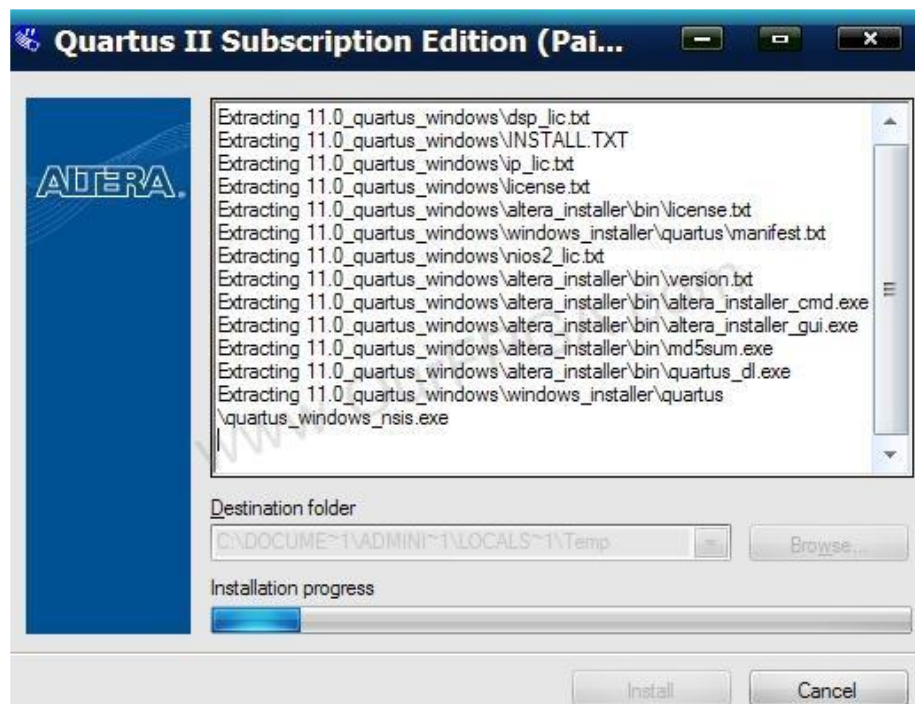


Figure 4.3 QuartusII 11.0 Installation Process

After decompression, proceed to the following step, as shown in Figure 4.4:



Figure 4.4 Quartus II 11.0 Installation Process

Select Next, check "I agree...", and then next, as shown in Figure 4.5.

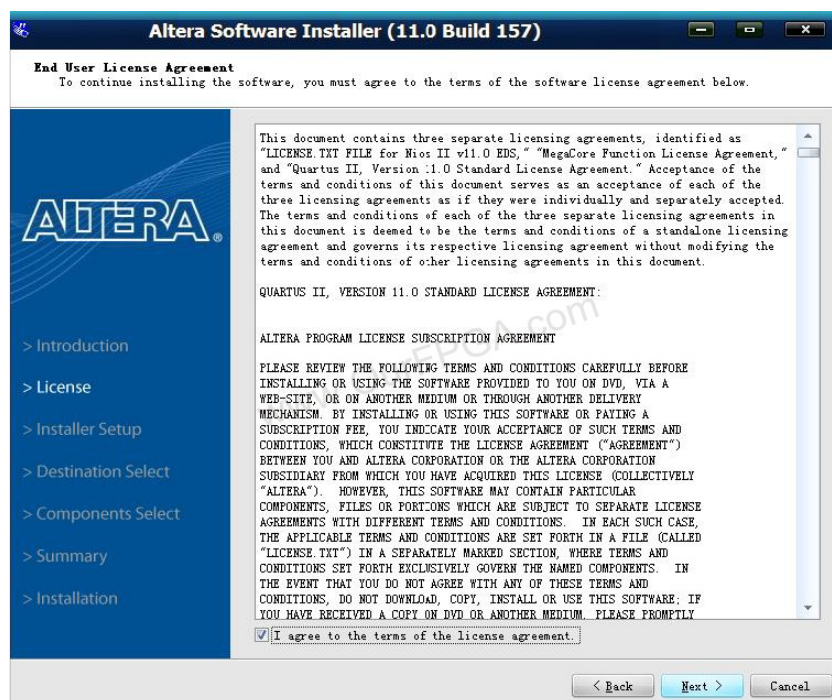


Figure 4.5 Quartus II 11.0 Installation Process

When this step is reached, pay attention: the installation directory should not contain Chinese and no spaces.

The default target folder is C:\altera\11.0, I changed it to be installed in the D drive, and directly changed C: to D:, so that the software is installed in D:\Altera\11.0, and then all the way next, without modification, as shown in Figure 4.6 and Figure 4.7. When your C drive has a large capacity, it can be installed on the C drive by default.



Figure 4.6 Quartus II 11.0 Installation Process

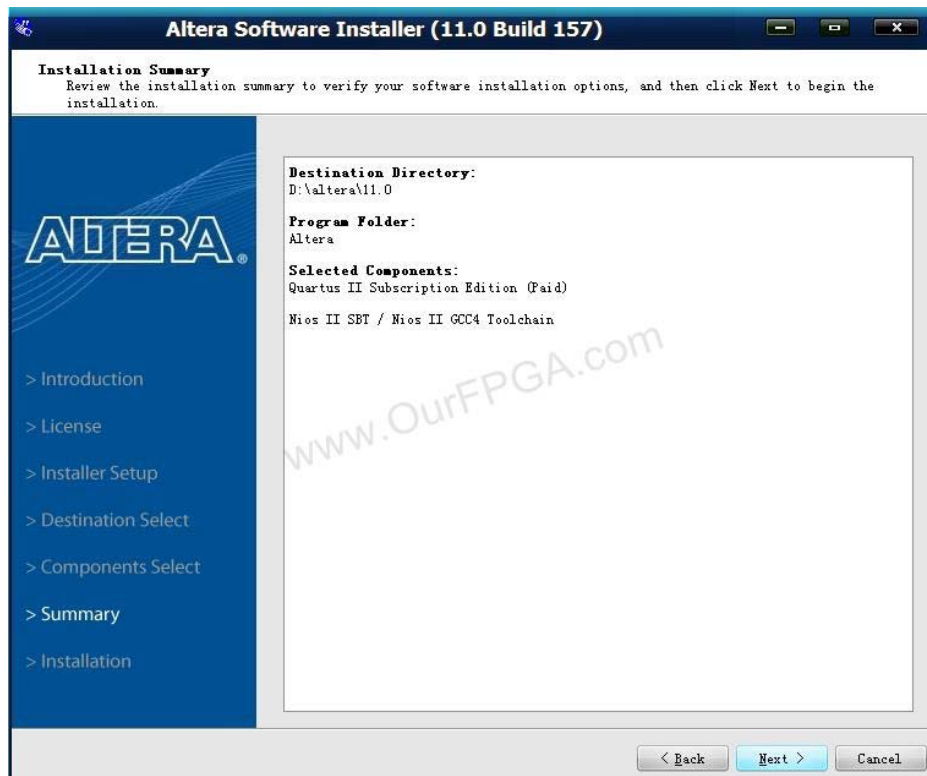


Figure 4.7 Quartus II 11.0 Installation Process

Then start the installation, as shown in Figure 4.8, after a few minutes, you can get up and go out to get some air.



Figure 4.8 Quartus II 11.0 Installation Process

Reminder: During the installation process, some antivirus software will prompt a risk, such as the 360 installed on my computer, just skip the following

Prompted; obviously, we choose “Allow this operation,” as shown in Figure 4.9.



Figure 4.9 Quartus II 11.0 Installation Process

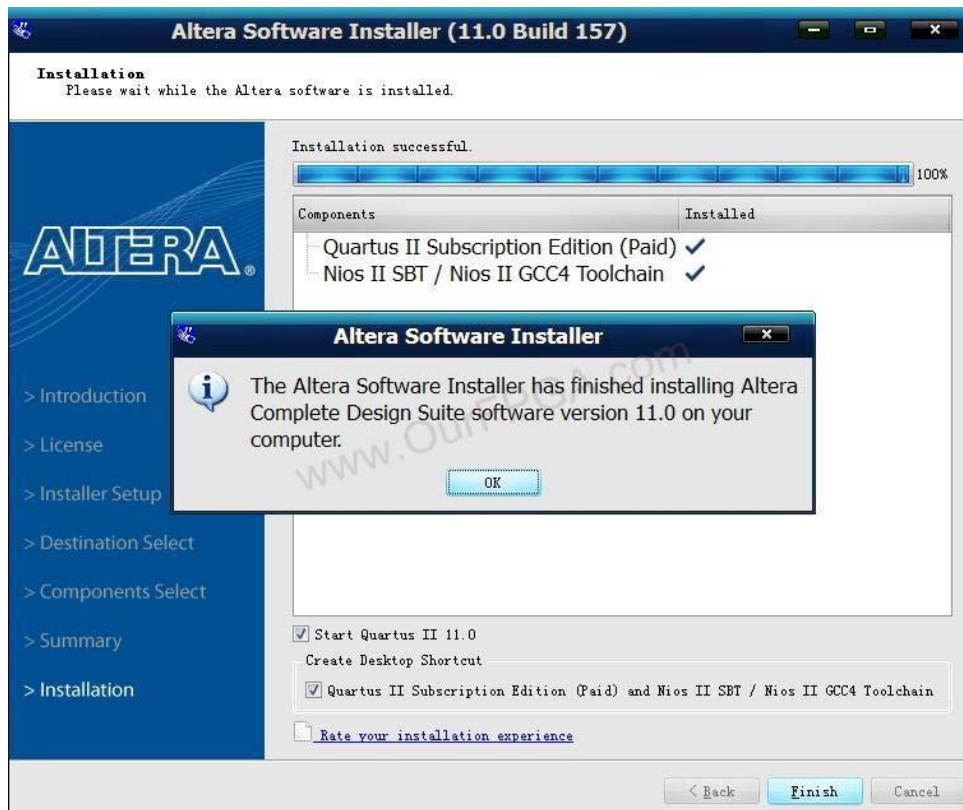


Figure 4.10 Quartus II 11.0 Installation Process

After installation, the prompt shown in Figure 4.10 appears, click OK. A talkback installation prompt will pop up here, you can choose to install it or not, as shown in Figure 4.11.

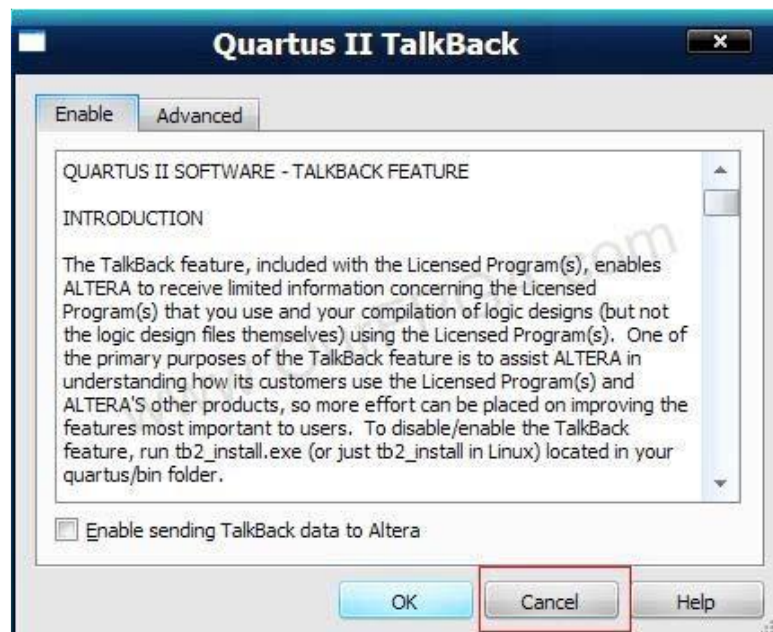


Figure 4.11 Quartus II 11.0 installation process

Then go to the next step, temporarily select the second item, as shown in Figure 4.12, use a 30-day trial, so that even the license file is not needed.



Figure 4.12 QuartusII 11.0 installation process

This will open the software. Note that at this time, only the software is installed, but the FPGA device file has not yet been installed. The device file is a file package that supports various Altera devices. This is very different from the version before 11.0: the previous ones were all installed together by default, and now it is flexible, we can choose the commonly used device packaging, and we will not install the ones that are not used, because some devices may not be used when you are old. Let's teach you step by step how to install the device file:

11.0_devices_windows in the CD is the device library for our student board, it is recommended to use this first.

If you want the complete library file, you can download it from the following address: Copy to Thunder for download, this capacity is nearly 4G, and it is not recommended to download.
ftp://ftp.altera.com/outgoing/release/11.0_devices_windows.exe

Double-click the 11.0_devices_windows compressed package file in the CD, and directly click the setup.exe to install it. Some friends are used to unzipping to the hard disk first, but it is ok, but you need to pay attention: Please put it under d:/device, and try not to put it in a multi-layer directory like d:/devcie/fe/erjkfd/. Too many directories may cause setup.exe to become unresponsive.

OK, continue:

The next few steps are similar to installing software, not much to say, follow the prompts to operate step by step. Ok, at this point, as shown in Figure 4.13, note: in which directory quartus was installed just now, the device package should also be installed in the same directory. I installed it on the D drive here, and modified it.

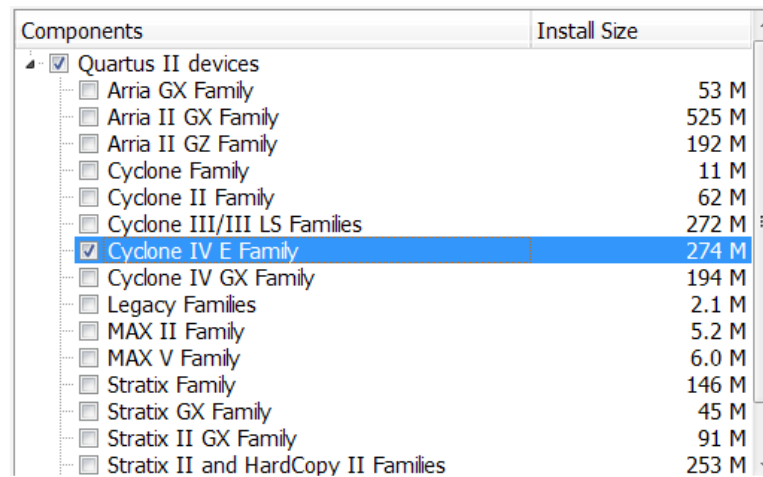


Figure 4.13 Quartus II 11.0 Installation Process

Next, it is time to select an Altera device family, as shown in Figure 4.14. The student board uses Cyclone IV E

For the device, this must be marked with \checkmark , and other devices should not be selected. Then go all the way to next, see Figure 4.15 and Figure 4.16.

Don't choose too many, choosing all will definitely not work.



A screenshot of the 'Components' window in the Quartus II 11.0 installer. It shows a tree view of components to be installed. The 'Cyclone IV E Family' is selected and highlighted in blue. The window has two columns: 'Components' and 'Install Size'.

Components	Install Size
<input checked="" type="checkbox"/> Quartus II devices	
<input type="checkbox"/> Arria GX Family	53 M
<input type="checkbox"/> Arria II GX Family	525 M
<input type="checkbox"/> Arria II GZ Family	192 M
<input type="checkbox"/> Cyclone Family	11 M
<input type="checkbox"/> Cyclone II Family	62 M
<input type="checkbox"/> Cyclone III/III LS Families	272 M
<input checked="" type="checkbox"/> Cyclone IV E Family	274 M
<input type="checkbox"/> Cyclone IV GX Family	194 M
<input type="checkbox"/> Legacy Families	2.1 M
<input type="checkbox"/> MAX II Family	5.2 M
<input type="checkbox"/> MAX V Family	6.0 M
<input type="checkbox"/> Stratix Family	146 M
<input type="checkbox"/> Stratix GX Family	45 M
<input type="checkbox"/> Stratix II GX Family	91 M
<input type="checkbox"/> Stratix II and HardCopy II Families	253 M

Figure 4.14 Quartus II 11.0 Installation Process

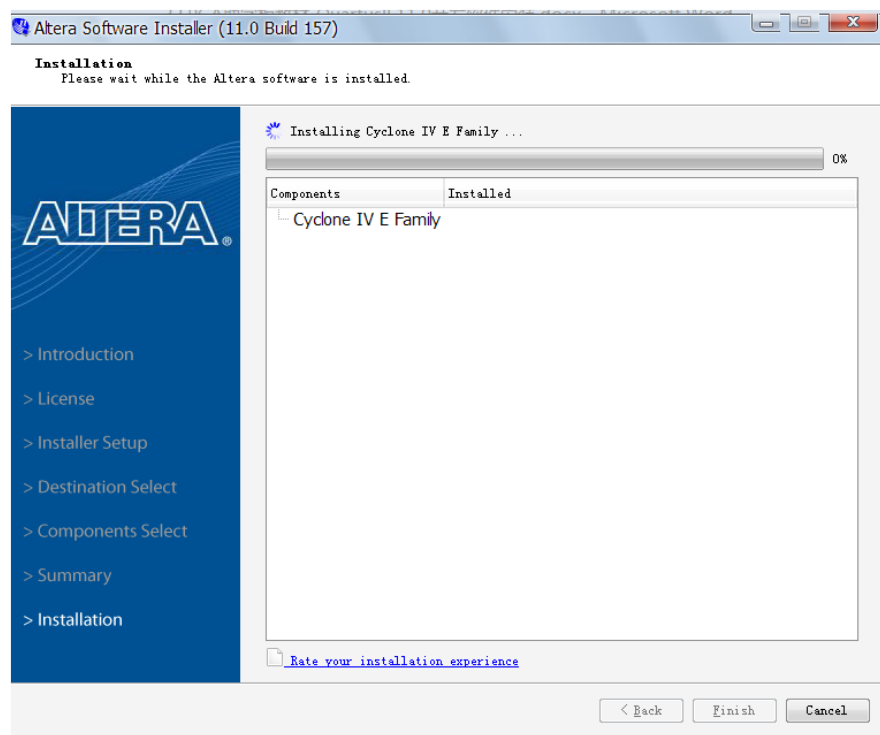


Figure 4.15 Quartus II 11.0 Installation Process

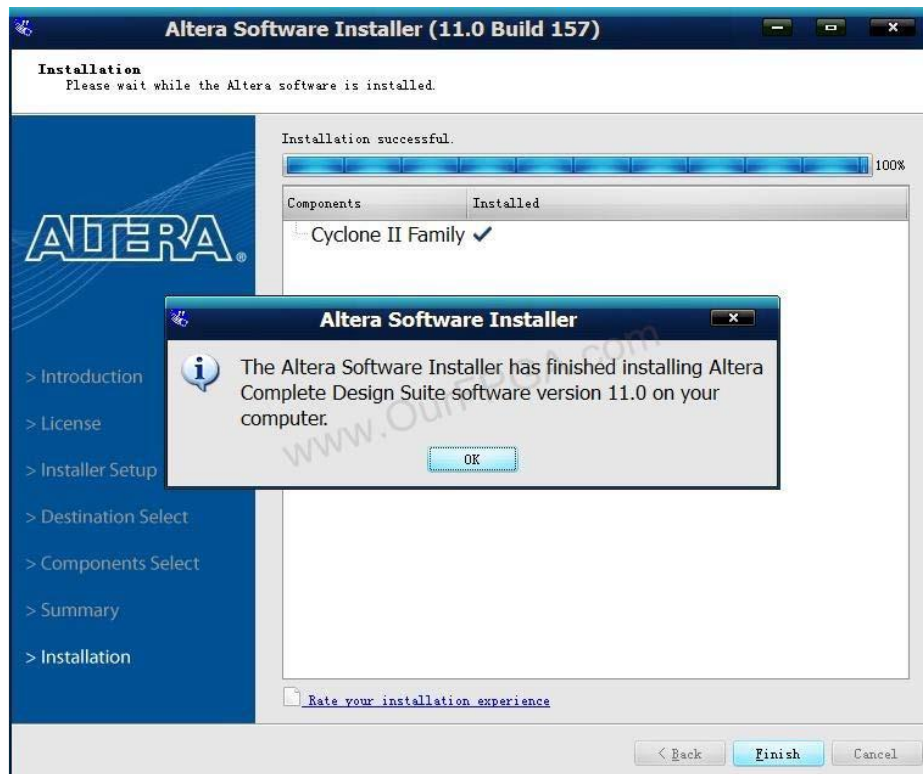


Figure 4.16 QuartusII 11.0 Installation Process

All right. We installed it, but if you want to use the software for a long time, you have to crack it.

Please follow carefully:

If it is a 32-bit computer, please use the Quartus_11.0_x86 cracker (internal version)

If it is a 64-bit computer, there are two methods:

1. After cracking with 32-bit, use the shortcut of 32-bit directly.
2. Crack with WIN7 64.

First open the Quartus_11.0_x86 cracker (internal version) in the CD, as shown in Figure 4.17.

In Figure 4.18, select "Add Trust" this must be selected, if you have other antivirus software on your computer, you can deal with it as appropriate.



Figure 4.17 Screenshot of cracked file



Figure 4.18 Screenshot of cracked file usage

Then the program runs, and the result is shown in Figure 4.19:

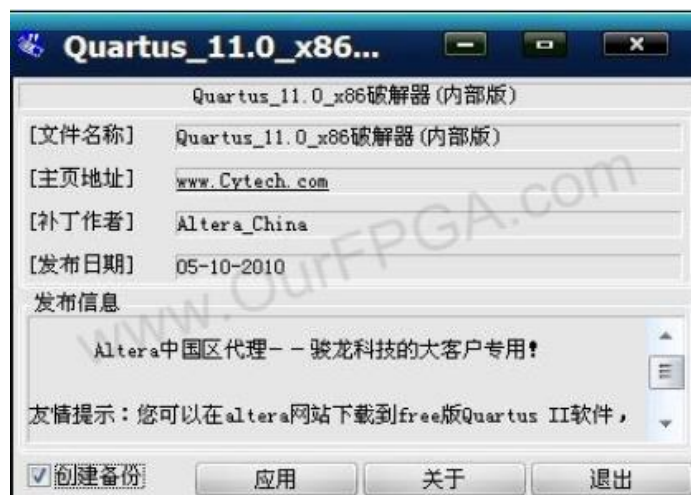


Figure 4.19 Screenshot of cracked file running interface

After clicking “Apply”, it prompts, “The file is not found. Search for this file?” as shown in Figure 4.20, click “Yes”.



Figure 4.20 Screenshot of crack file running interface

At this time, to find and crack the sys_cpt.dll file under D:\altera\11.0\quartus\bin, if it is a 64-bit computer, select sys_cpt.dll under D:\altera\11.0\quartus\bin64. Then select sys_cpt.dll, and click "Open." As shown in Figure 4.21



Figure 4.21 Screenshot of crack file running interface

Generate license.dat file, and save it, you can save it directly in D:\altera.



Figure 4.22 Save the license file

Open license.dat with Notepad and replace XXXXXXXXXXXX with your old network card number. Next, select License Setup under the Tools menu of Quartus II 11.0, and there is the NIC ID below, as shown in Figure 4.23, Figure 4.24, and Figure 4.25.

Some computers have several NIC IDs. At this time, you can try different ones, and one of them will be successful.

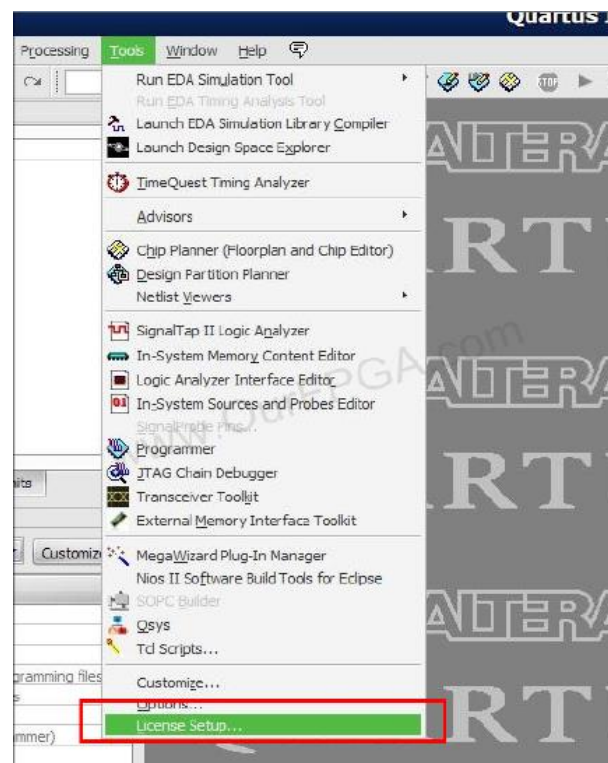


Figure 4.23 View NIC ID

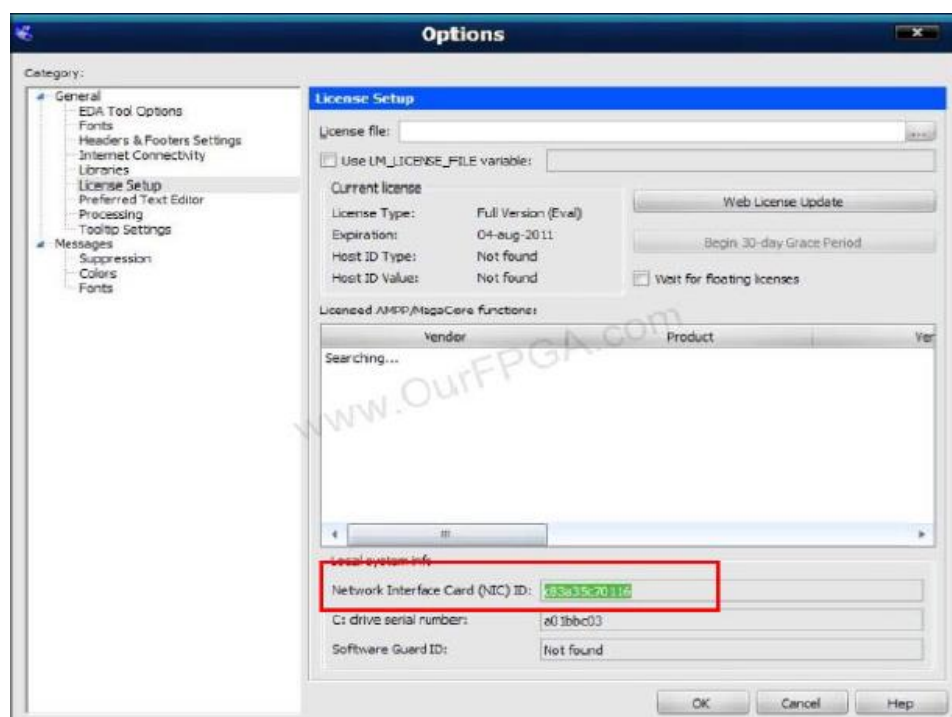


Figure 4.24 View NIC ID



Figure 4.25 Modify network card number

In the Quartus II 11.0 Tools menu, choose License Setup, then choose License file, and click OK.

Note: As shown in Figure 4.26, if you see no, the registration is successful below! Note that some computers have dual network cards and therefore have two NIC IDs. You only need to copy one to crack. It is possible that one of them cannot be cracked successfully, so please try another ID.

This software has been verified under both Windows XP and Windows 7 32/64 bit operating systems, no problem! This software has passed the Norton test but may be mistaken for a "virus" under some other antivirus software.

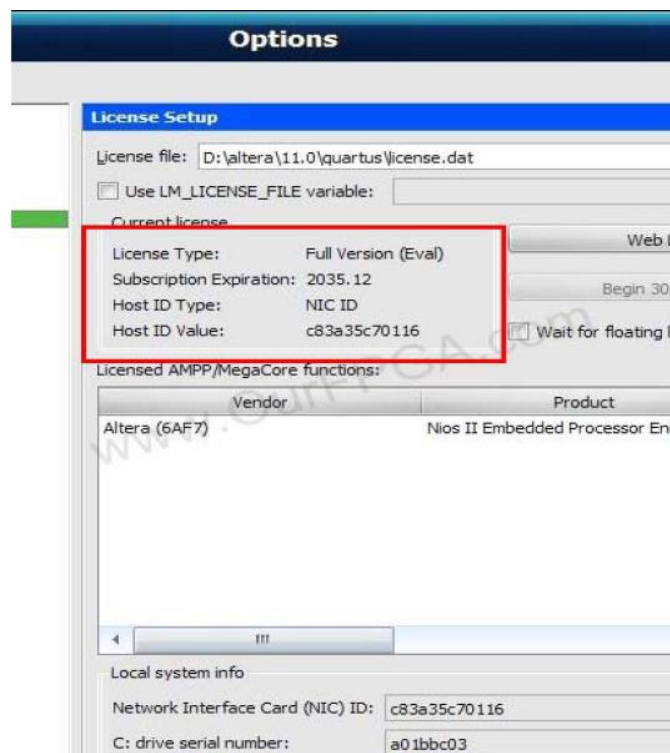


Figure 4.26 Screenshot of successful registration