



Application Notes

CKM151 – Programming with different reference clock frequencies

Before running the CKM Setup Application to program your CKM151 to use a specific reference clock frequency, you must install the CKM device drivers to your system and download and install some pre-requisite files that are needed for the application. This application note will demonstrate how to do both.

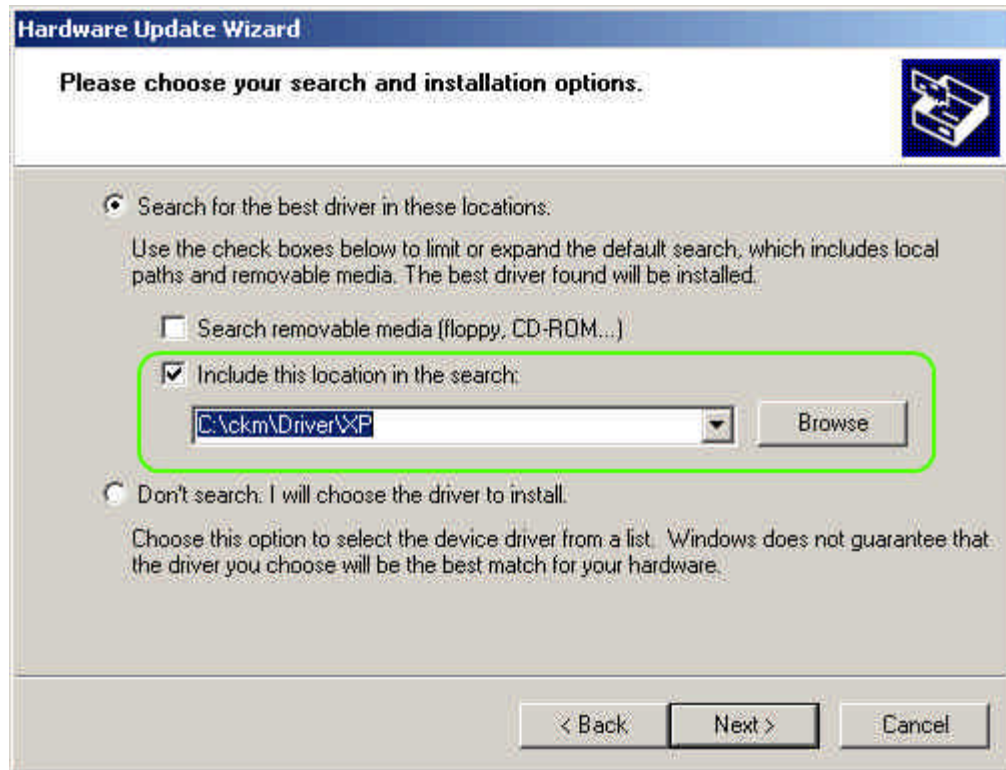
Before proceeding, download the CKM_Setup.zip file from the Euvis website and unzip the contents to C:\CKM

INSTALLING CKM DEVICE DRIVERS

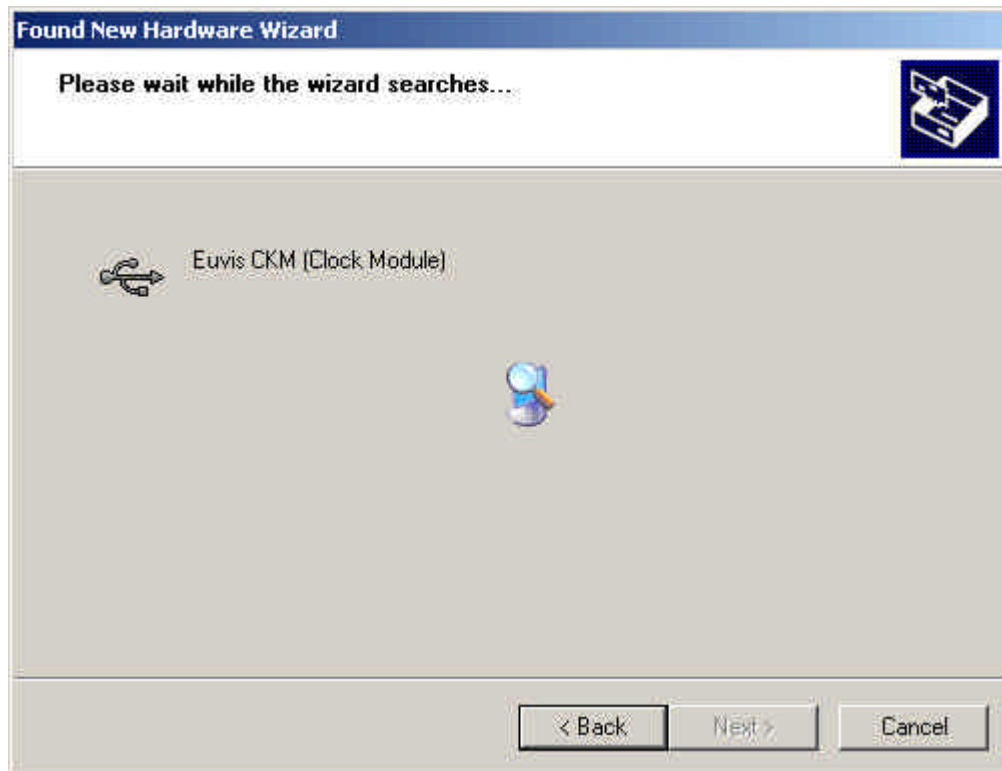
1. Connect the power and a USB cable from your computer to the CKM board. When Windows detects the CKM, you should see the window below. Click on the “Install from a list or specific location (Advanced)” option and then click on “Next”.



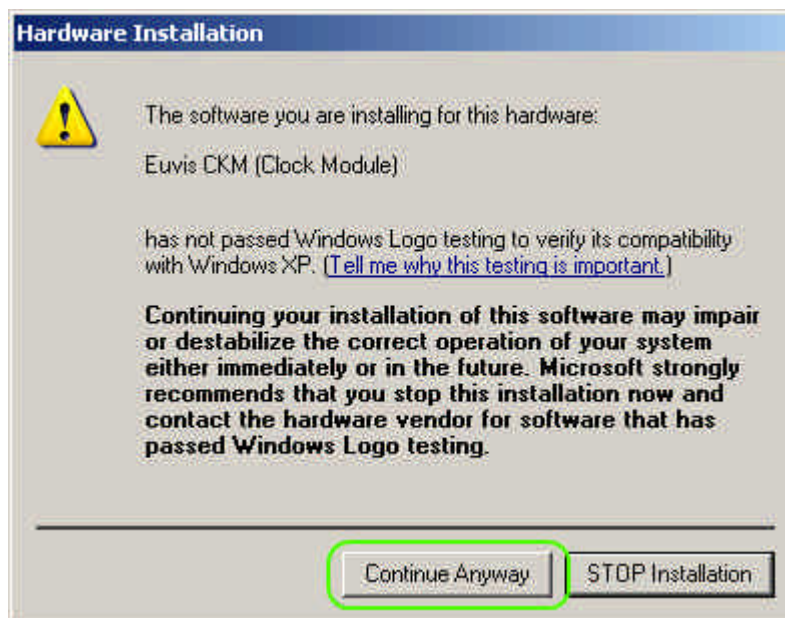
2. In the next windows, check the “Include this location in the search” option and then click on “Browse”. Go to the driver folder where you extracted the ZIP file that we sent you. For our example our folder is at “C:\CKM\” and since we are using Windows XP our driver folder is located at “C:\CKM\Driver\XP”.



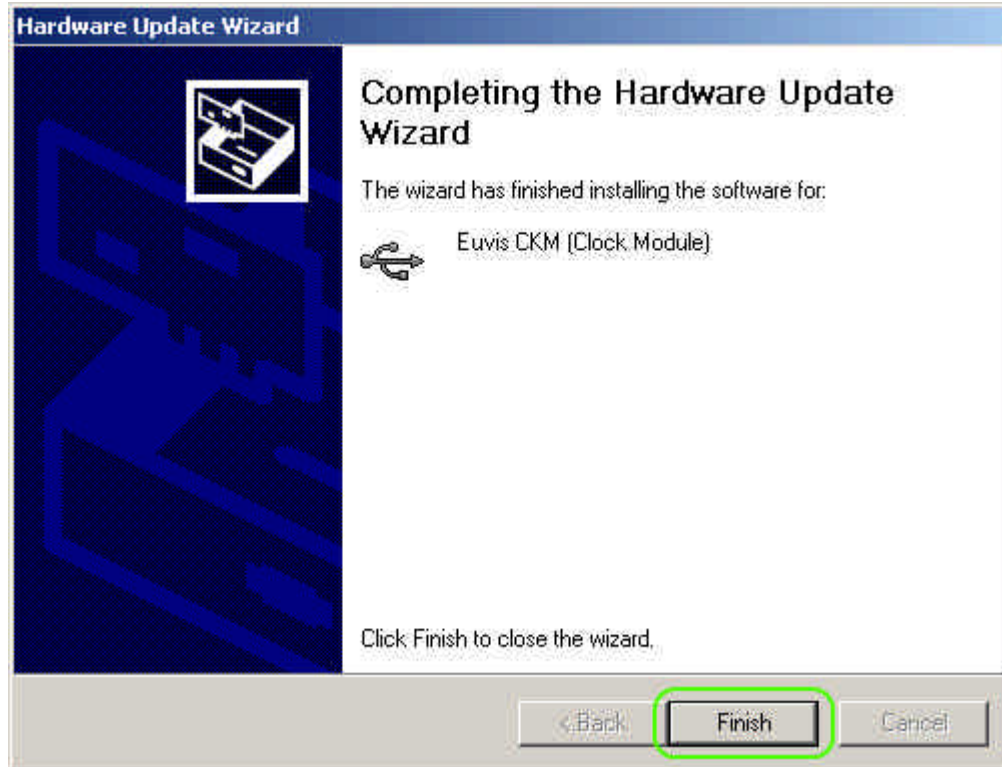
3. If the driver and INF file were found correctly, you will see the window below.



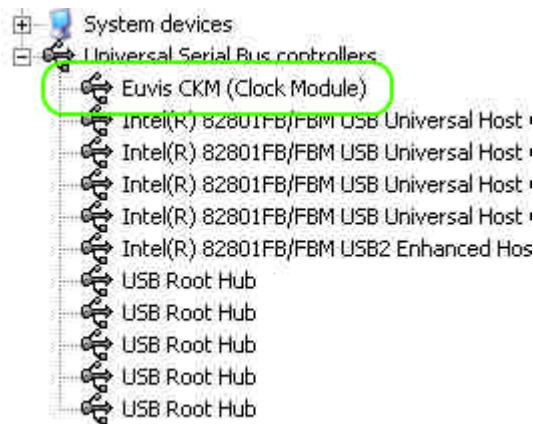
4. On the next window, click on "Continue Anyway".



- Click on “Finish” in the last window. You have now completed driver installation.



- If everything completed successfully, you should now be able to see the Euvis CKM device under “Universal Serial Bus controllers” in the Device Manager.



DOWNLOADING AND INSTALLING PRE-REQUISITE FILES

Before running the CKM_Setup console application, you must make sure that you have a few pre-requisite files installed. The two pre-requisite files are the Microsoft .NET Framework 4.0 and the Microsoft Visual C++ 2010 Redistributable Package.

You can download the Microsoft .NET Framework here:

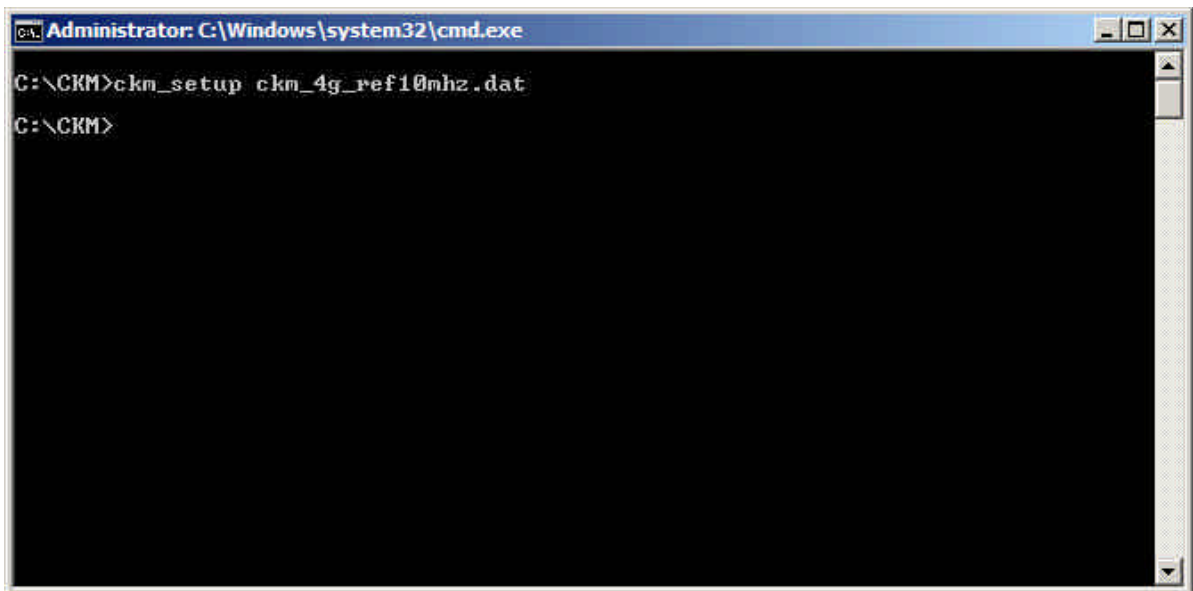
www.microsoft.com/en-us/download/details.aspx?id=17718

You can download the Microsoft Visual C++ 2010 Redistributable Package here:

<http://www.microsoft.com/en-us/download/details.aspx?id=5555>

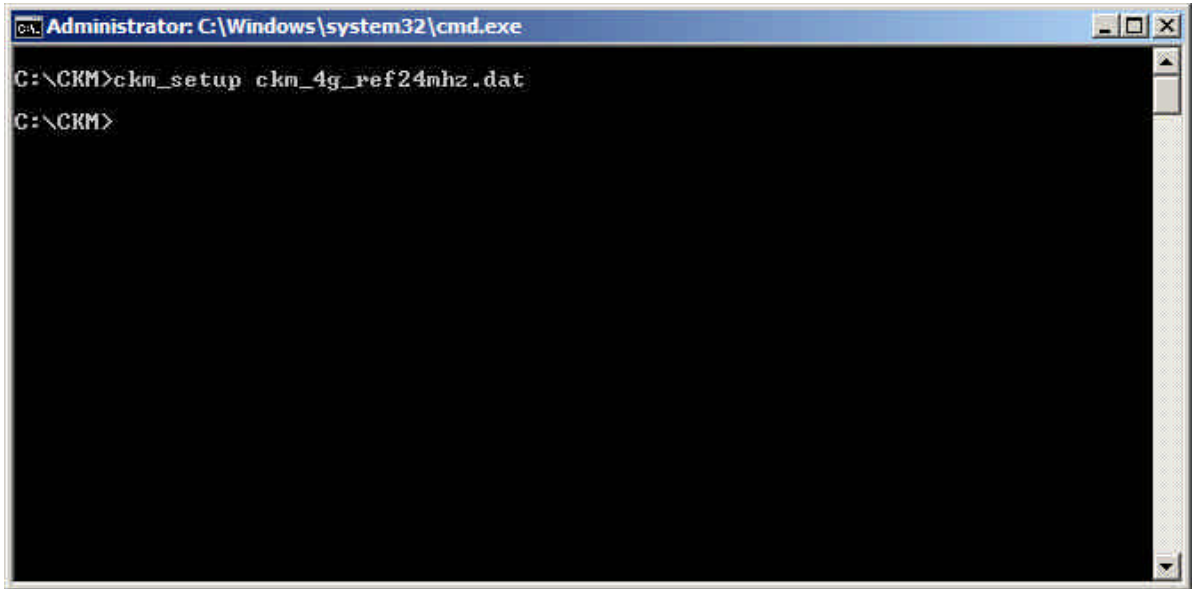
After installing the required files, open a command prompt window and navigate to the C:\CKM directory.

For a 4 GHz output clock with an external 10 MHz reference clock, type the following:



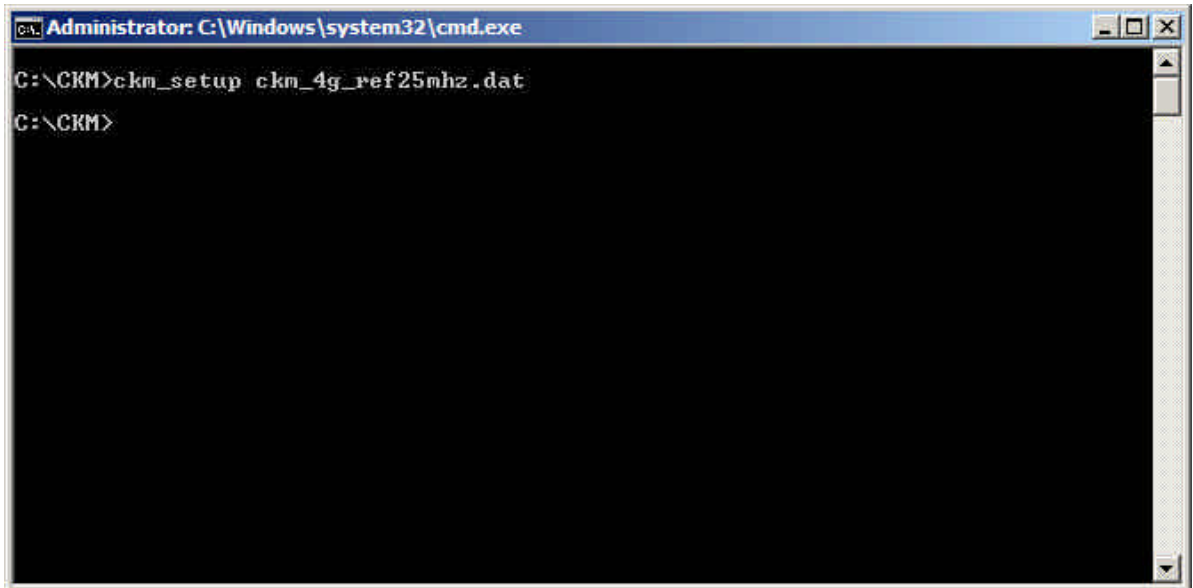
```
Administrator: C:\Windows\system32\cmd.exe
C:\CKM>ckm_setup ckm_4g_ref10mhz.dat
C:\CKM>
```

For a 4 GHz output clock with the internal 24 MHz reference clock (depending on CKM151 version), type the following:



```
Administrator: C:\Windows\system32\cmd.exe
C:\CKM>ckm_setup ckn_4g_ref24mhz.dat
C:\CKM>
```

For a 4 GHz output clock with the internal 25 MHz reference clock (depending on CKM151 version), type the following:



```
Administrator: C:\Windows\system32\cmd.exe
C:\CKM>ckm_setup ckn_4g_ref25mhz.dat
C:\CKM>
```

If successful, the 'LOCK' LED on the CKM module will light up (the module must be powered on and the appropriate reference source must be connected).