# How to Make Windows 7 Drivers Work on Windows 8/8.1 (INF Modding)

Windows 8 has been officially launched and the most common problems that are encountered when you use a new OS are related to driver compatibility issues. Some drivers do not support Windows 8 and when you force to install the driver, Windows 8 will reject it. Different with previous versions of windows, the regulation of the drivers on Windows 8 is very tight, and you need more effort when you install a driver that does not officially support Windows 8. This time I will share my experience installing driver from a Prolink PCM100 USB Modem on Windows 8.

A few weeks ago I tried to install a driver from Prolink PCM100 on Windows 8 RTM x64. I used the *"compatibility mode"* on the setup.exe file and install it normally. After that I checked in the Device Manager and found the device status was *"unknown device"* then I tried to update the driver manually (still in the device manager) using the *".inf"* file and the Windows 8 RTM accepted the *".inf"* file, though the file is designed only for Windows 7.

Yesterday I installed the latest version of Windows 8, the Windows 8 Pro x64. Then I tried to install driver from USB Modem PCM100 on that Windows by using the *"compatibility mode"* on the *setup.exe* file and the installation seemed to run normally, but at the end of the installation process it apparently came out an error message *"Fail to install modem"*.
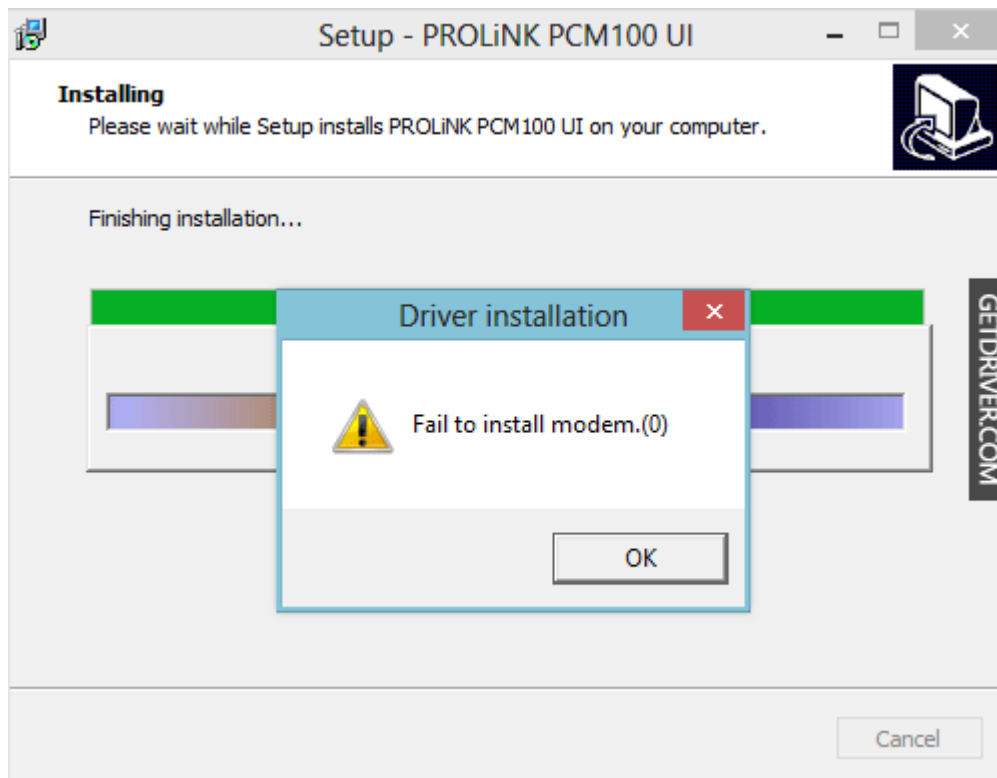
I tried to check the device manager, there was a device with status "unknown device" and then I tried to update the driver manually using the file ".inf" as I did before, and the error message *"Driver is not intended for this platform"* appeared.

Then I tried to edit the ".inf" file using notepad. The entire "**NTia64**" was replaced by "**NTia64.6.2**" and all "**NTamd64**" was replaced by "**NTamd64.6.2**" then I tried to update the driver with the ".inf" file which has been modified and the error message *"The hash for the file is not present in the specific catalog file. The file is likely corrupt or the victim of tampering."* appears.

UPDATE:
Windows 8.1 x64: Replace "**NTia64**" with "**NTia64.6.3**" and "**NTamd64**" with "**NTamd64.6.3**"

```
[Version]
Signature="$WINDOWS NT$"
Class=Modem
Provider=%ZTEMT%
CLASSGUID={4D36E96D-E325-11CE-BFC1-08002BE10318}
DriverVer=05/13/2010,2.0.5.6
Catalogfile = ztemtusbser.cat

[Manufacturer]
%ZTEMT%=Models, NTia64, NTamd64

[ControlFlags]
ExcludeFromSelect = *

[SourceDisksNames]
1000 = %ZTEMTSrcDisk%,"",,

[SourceDisksFiles]
CT_U_USBSER.sys = 1000

[Models]
%ZTEFFFF% = ModemRevA, USB\VID_19D2&PID_FFFF&MI_00
```
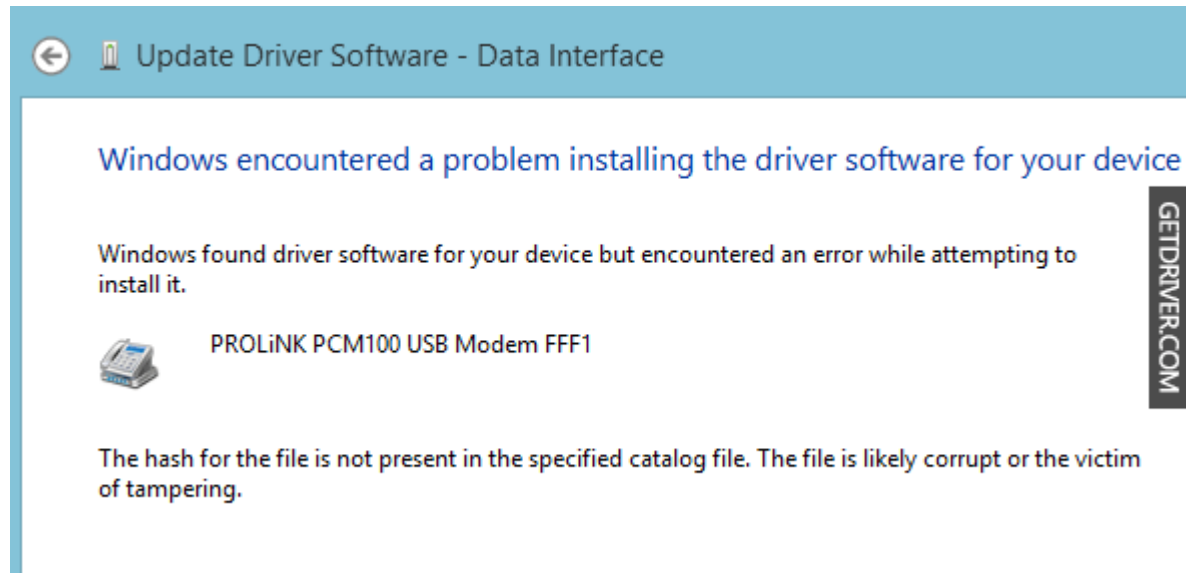
```
    %ZTEFFFE%  = Modem2, USB\VID_19D2&PID_FFFE&MI_00
    %ZTEFFFD%  = Modem2, USB\VID_19D2&PID_FFFD&MI_00
    %ZTEFFFC%  = Modem2, USB\VID_19D2&PID_FFFC&MI_00

    %ZTEFFFB%  = Modem2, USB\VID_19D2&PID_FFFB&MI_00
    %ZTEFFFA%  = Modem2, USB\VID_19D2&PID_FFFA&MI_00
    %ZTEFFF9%  = Modem2, USB\VID_19D2&PID_FFF9&MI_00
    %ZTEFFF8%  = Modem2, USB\VID_19D2&PID_FFF8&MI_00
    %ZTEFFF7%  = ModemRevA, USB\VID_19D2&PID_FFF7&MI_00
    %ZTEFFF6%  = ModemRevA, USB\VID_19D2&PID_FFF6&MI_01 ; MI_00 is Used for USB
    Disk
    %ZTEFFF1%  = ModemRevA, USB\VID_19D2&PID_FFF1&MI_00
    %ZTEFFF0%  = ModemRevA, USB\VID_19D2&PID_FFF0&MI_04
    %ZTEFFEF%  = Modem2, USB\VID_19D2&PID_FFEF&MI_00
    %ZTEFFEE%  = Modem2, USB\VID_19D2&PID_FFEE&MI_00
    %ZTEFFEC%  = Modem2, USB\VID_19D2&PID_FFEC&MI_03
    %ZTEFFEA%  = Modem2, USB\VID_19D2&PID_FFEA&MI_01
    %ZTEFFE9%  = Modem2, USB\VID_19D2&PID_FFE9&MI_00
    %ZTEFFE8%  = Modem2, USB\VID_19D2&PID_FFE8&MI_00
    %ZTEFFE7%  = Modem2, USB\VID_19D2&PID_FFE7&MI_00
    %ZTEFFE4%  = Modem2, USB\VID_19D2&PID_FFE4&MI_00

    [Models.NTamd64]
    %ZTEFFFF%  = ModemRevA, USB\VID_19D2&PID_FFFF&MI_00
    %ZTEFFFE%  = Modem2, USB\VID_19D2&PID_FFFE&MI_00
    %ZTEFFFD%  = Modem2, USB\VID_19D2&PID_FFFD&MI_00
    %ZTEFFFC%  = Modem2, USB\VID_19D2&PID_FFFC&MI_00

    %ZTEFFFB%  = Modem2, USB\VID_19D2&PID_FFFB&MI_00
    %ZTEFFFA%  = Modem2, USB\VID_19D2&PID_FFFA&MI_00
    %ZTEFFF9%  = Modem2, USB\VID_19D2&PID_FFF9&MI_00
    %ZTEFFF8%  = Modem2, USB\VID_19D2&PID_FFF8&MI_00
    %ZTEFFF7%  = ModemRevA, USB\VID_19D2&PID_FFF7&MI_00
    %ZTEFFF6%  = ModemRevA, USB\VID_19D2&PID_FFF6&MI_01 ; MI_00 is Used for USB
    Disk
    %ZTEFFF1%  = ModemRevA, USB\VID_19D2&PID_FFF1&MI_00
    %ZTEFFF0%  = ModemRevA, USB\VID_19D2&PID_FFF0&MI_04
    %ZTEFFEF%  = Modem2, USB\VID_19D2&PID_FFEF&MI_00
    %ZTEFFEE%  = Modem2, USB\VID_19D2&PID_FFEE&MI_00
    %ZTEFFEC%  = Modem2, USB\VID_19D2&PID_FFEC&MI_03
    %ZTEFFEA%  = Modem2, USB\VID_19D2&PID_FFEA&MI_01
    %ZTEFFE9%  = Modem2, USB\VID_19D2&PID_FFE9&MI_00
    %ZTEFFE8%  = Modem2, USB\VID_19D2&PID_FFE8&MI_00
    %ZTEFFE7%  = Modem2, USB\VID_19D2&PID_FFE7&MI_00
    %ZTEFFE4%  = Modem2, USB\VID_19D2&PID_FFE4&MI_00

    [Models.NTia64]
    %ZTEFFFF%  = ModemRevA, USB\VID_19D2&PID_FFFF&MI_00
    %ZTEFFFE%  = Modem2, USB\VID_19D2&PID_FFFE&MI_00
    %ZTEFFFD%  = Modem2, USB\VID_19D2&PID_FFFD&MI_00
    %ZTEFFFC%  = Modem2, USB\VID_19D2&PID_FFFC&MI_00

    %ZTEFFFB%  = Modem2, USB\VID_19D2&PID_FFFB&MI_00
    %ZTEFFFA%  = Modem2, USB\VID_19D2&PID_FFFA&MI_00
    %ZTEFFF9%  = Modem2, USB\VID_19D2&PID_FFF9&MI_00
    %ZTEFFF8%  = Modem2, USB\VID_19D2&PID_FFF8&MI_00
    %ZTEFFF7%  = ModemRevA, USB\VID_19D2&PID_FFF7&MI_00
    %ZTEFFF6%  = ModemRevA, USB\VID_19D2&PID_FFF6&MI_01 ; MI_00 is Used for USB
    Disk
    %ZTEFFF1%  = ModemRevA, USB\VID_19D2&PID_FFF1&MI_00
    %ZTEFFF0%  = ModemRevA, USB\VID_19D2&PID_FFF0&MI_04
```

```
%ZTEFFEF% = Modem2, USB\VID_19D2&PID_FFEF&MI_00
%ZTEFFEE% = Modem2, USB\VID_19D2&PID_FFEE&MI_00
%ZTEFFEC% = Modem2, USB\VID_19D2&PID_FFEC&MI_03
%ZTEFFEA% = Modem2, USB\VID_19D2&PID_FFEA&MI_01
%ZTEFFE9% = Modem2, USB\VID_19D2&PID_FFE9&MI_00
%ZTEFFE8% = Modem2, USB\VID_19D2&PID_FFE8&MI_00
%ZTEFFE7% = Modem2, USB\VID_19D2&PID_FFE7&MI_00
%ZTEFFE4% = Modem2, USB\VID_19D2&PID_FFE4&MI_00
```


Apparently the "hash" of *".inf"* file was changed because I have edited it and was not in accordance with the Security Catalog file *".cat"*. Then I tried to edit the *".inf"* file again, this time I tried to give a sign *";"* on the line *Catalogfile* so that the statement is no longer used because it is considered as a comment, and then I went back into device manager to try to update the driver again, and I encountered this error ***"The third-party INF does not contain digital signature information."***

```
[Version]
Signature="$WINDOWS NT$"
Class=Modem
Provider=%ZTEMT%
CLASSGUID={4D36E96D-E325-11CE-BFC1-08002BE10318}
DriverVer=05/13/2010,2.0.5.6
;Catalogfile = ztemtusbser.cat
```

In Windows 7, if you install a driver that does not have digital signature information, then Windows 7 will give us two options: ***"Do not install this driver software / Install this driver any way "***. However, in windows 8 it did not appear that options. I had to restart the computer and press F8 on the dual boot menu or during POST. It would appear the ***"Startup settings"*** menu and then I selected the seventh option ***"Disable driver signature enforcement"***.
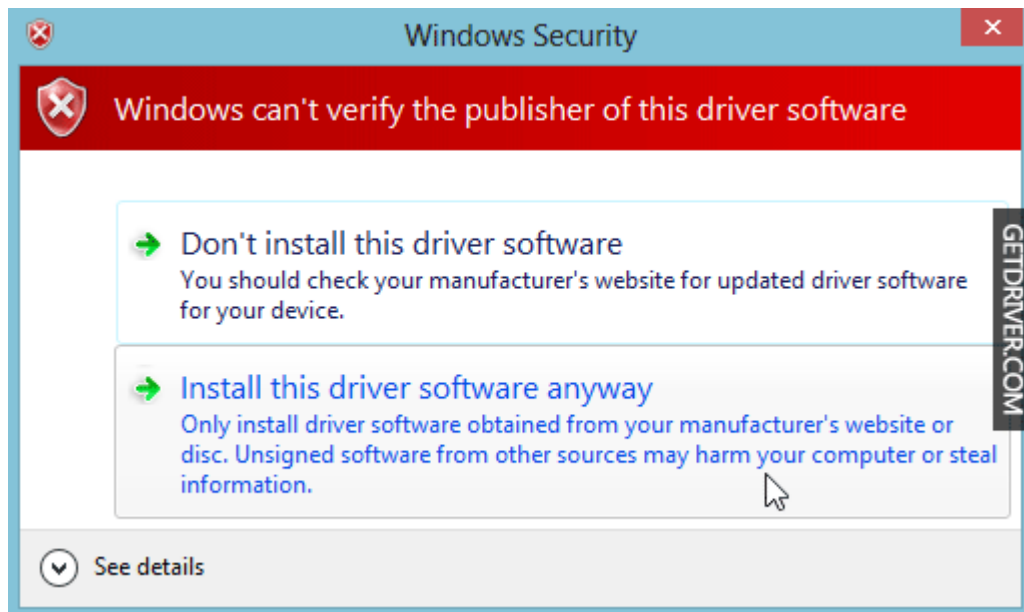
When I tried to update the driver from device manager again, eventually a small window appeared with the two choices: ***"Do not install this driver software / Install this driver software any way"***, and I certainly chose ***"Install this driver software any way"*** and successfully, the driver was installed perfectly. I hope my experience is useful for those of you who have driver compatibility issues in Windows 8/8.1.