

## WINDOWS 10 USB DEVICE DRIVER INSTALLATION NOTES

Windows 10 resists loading unregistered device drivers. This procedure will allow the CNS Clock II USB device driver to be successfully loaded on a Windows 10 computer.

Find the USB device driver library on the distribution CD-ROM or download the latest driver library from <https://www.cnssys.com/Tac32Plus/Tac32Plus.php>. Put the driver library in a convenient directory such as `C:\temp` and then extract the files to a subdirectory such as `C:\temp\CNS_Clock_II_USB_Drivers`. If not already there, use any text editor to copy the following text into a new file in the same directory. Name the file "install\_CNS-USB.bat".

## CNS-USB.bat

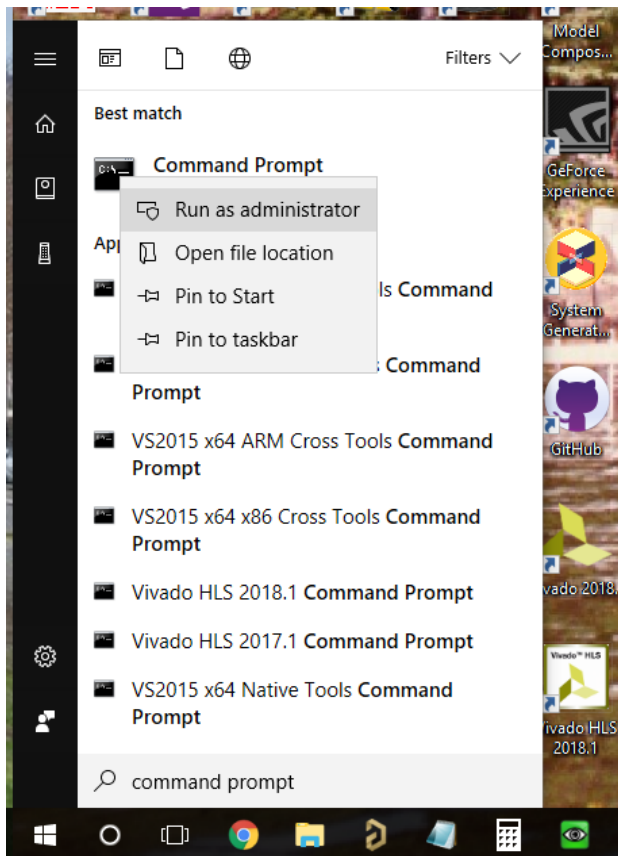
```
REM Begin Batch File
@ECHO off
REM -----
REM --
REM -- Windows 64 Bit Installation for CNS Clock II USB drivers
REM --
REM -----
net session > NUL 2>&1
IF %ERRORLEVEL% EQU 0 (
    goto ADMIN_OK
) ELSE (
    ECHO Must run as an Administrator..... Exiting.
    pause
    goto END_BAT
)
:ADMIN_OK
REM When right clicking file "Run as Administrator", Path changes to c:\Windows\System32\
REM Change to Drive and directory where batch file resides
set runDrive=%~d0
set runPath=%~p0
%runDrive%
CD %runPath%
IF /I "%PROCESSOR_ARCHITECTURE%" EQU "AMD64" (
    goto Install_64Bit
) ELSE IF /I "%PROCESSOR_ARCHITECTURE%" EQU "IA64" (
    goto Install_64Bit
) ELSE IF /I "%PROCESSOR_ARCHITECTURE%" EQU "AMD64" (
    goto Install_64Bit
) ELSE IF /I "%PROCESSOR_ARCHITECTURE%" EQU "IA64" (
    goto Install_64Bit
) ELSE IF /I "%PROCESSOR_ARCHITECTURE%" EQU "X86" (
    goto Install_32Bit
) ELSE (
    goto Install_Failed
)
:Install_64Bit
ECHO Installing ftdibus.inf
pnputil -i -a ftdiport.inf
pause
ECHO Installing ftdiport.inf
pnputil -i -a ftdibus.inf
pause
goto finished
:Install_32Bit
echo Windows 32 bit applications not supported by this installation method.
pause
goto finished
:Install_Failed
echo Failed: Unknown Processor (%PROCESSOR_ARCHITECTURE%) - No action Taken!
pause
:finished
REM End Batch File
```

The computer will need to be rebooted selecting a special mode that will allow unsigned drivers to be installed.

1. In the "Ask me anything" box on the Taskbar (lower left corner), enter: Recovery
2. Click "Recovery Options"
3. Under Advanced Startup, Click "Restart Now"
4. Computer will bring up a Blue Screen with 3 or 4 options:
  - Continue
  - Use another operating system

- Troubleshoot
  - Turn off your PC
5. Click "Troubleshoot"
  6. Click "Advanced Options"
  7. Click "Startup Settings"
  8. Click "Restart"
  9. The computer will reboot bringing up a menu to allow different boot options.
  10. Press 7, to choose Disable driver signing enforcement

After the computer reboots, open a command prompt window by right clicking and click "Run as Administrator". **Note: Running the batch file from File Explorer does not work.**



In the command prompt window, change to the drive and directory to the location where the install batch file and drivers are located. For example, type:

```
cd C:\temp\CNS_Clock_II_USB_Driver_-2.12.28
install_CNS-USB.bat
```

To make it clear, below is a typical command line session.

```
Administrator: Command Prompt

c:\temp\CNS_Clock_II_USB_Driver_2.12.28>dir
Volume in drive C is CNSSYS
Volume Serial Number is 7986-EF00

Directory of c:\temp\CNS_Clock_II_USB_Driver_2.12.28

05/01/18  02:08 PM    <DIR>          .
05/01/18  02:08 PM    <DIR>          ..
04/30/18  12:00 PM    <DIR>          amd64
09/19/17  04:46 PM             40,993 ftd2xx.h
09/19/17  04:46 PM             18,798 ftdibus.cat
04/30/18  12:06 PM             12,793 ftdibus.inf
09/19/17  04:46 PM             17,974 ftdiport.cat
04/30/18  12:09 PM             13,352 ftdiport.inf
04/30/18  12:00 PM    <DIR>          i386
05/01/18  01:47 PM             1,052 install_CNS-USB.bat
04/30/18  12:00 PM    <DIR>          Static
04/29/18  06:53 PM      145,893 Windows_10_USB_Device_Driver_Installation_Notes.pdf
              7 File(s)          250,855 bytes
              5 Dir(s)  389,158,854,656 bytes free

c:\temp\CNS_Clock_II_USB_Driver_2.12.28>install_CNS-USB.bat
Installing ftdibus.inf
Microsoft PnP Utility

Processing inf :          ftdiport.inf
Successfully installed the driver on a device on the system.
Driver package added successfully.
Published name :          oem114.inf

Total attempted:          1
Number successfully imported: 1

Press any key to continue . . .
Installing ftdiport.inf
Microsoft PnP Utility

Processing inf :          ftdibus.inf
Successfully installed the driver on a device on the system.
Driver package added successfully.
Published name :          oem115.inf

Total attempted:          1
Number successfully imported: 1

Press any key to continue . . .
c:\temp\CNS_Clock_II_USB_Driver_2.12.28>
```