Silicon Labs Timing USBXpress Driver README

Last updated March 3, 2018

CBPro supported evaluation boards and field programmer require a USBXpress driver.

The CBPro installer automatically installs this driver.

The driver installers are copied here for manual installation/debug. In general, this should not be required unless instructed to by a Silicon Labs support engineer.

There are two versions of the USBXpress driver:

Version 3.3

1) In folder USBXpress-Driver-v3.3
2) All versions of CBPro before 2.19.20 installed this
3) It works on Windows XP through Windows 10, except when:
   a) Windows 10 Build 1607 or higher
   b) UEFI instead of BIOS
   c) Secure Boot turned on
4) CBPro installer 2.19.20 and higher installs this driver EXCEPT ON PCs WITH SECURE BOOT. The installer checks the registry to determine if the PC is using secure boot
5) The driver is "self signed" and has a valid digital signature
6) There are two sub-folders for variations of this driver:
   a) Quiet-Mode: the CBPro installer runs this version to avoid dialog boxes on every CBPro update.
   b) Verbose-Mode: this shows driver installer dialog boxes and is helpful when debugging driver issues.

Version 6.7.2.1

1) In folder USBXpress-Driver-v6.x
2) CBPro 2.19.20 and higher will install this on Windows 10 PCs that use secure boot
3) The driver is certified and signed by Microsoft
4) The CBPro installer passes /q option to USBXpressInstaller_*.exe to run in quiet mode, suppressing driver installation dialog boxes
5) If you double click USBXpressInstaller_*.exe from Windows Explorer, the driver installer will launch in verbose mode, showing standard dialog boxes.

Having Trouble Detecting an EVB?

Please try the following:

1) Reboot your PC
2) Launch CBPro and see if it detects EVB
3) If not, try installing or re-installing latest CBPro from http://www.silabs.com/cbpro (or newer Beta as appropriate)
4) Disconnect, wait a few seconds, and reconnect EVB
5) Launch CBPro and see if it detects EVB

6) If it does not detect the EVB, contact Silicon Labs via http://www.silabs.com/contactsupport.
   a) Please attach the log.txt file that is found in C:\Users\YOURLOGIN\AppData\Local\Silicon Laboratories\ClockBuilder Pro where YOURLOGIN is your Windows login ID, such as jsmith. The log file contains some debugging information about the USB driver, such as:

   ```
   USBXpress Device 0:
   USBXpress   SerialNumber: si5380cevb0106_000019d186b2
   USBXpress   Description: Silicon Labs Si538x/4x EVB
   USBXpress   LinkName:
   \\?\usb#vid_10c4&pid_8999#si5380cevb0106_000019d186b2#{3c5e1462-5695-4e18-876b-f3f3d08aaf18}
   USBXpress   VendorID: 10c4
   USBXpress   ProductID: 8999
   USBXpress: First Open; detecting driver to use
   USBXpress: CPU Architecture: x86
   USBXpress: Secure Boot: No
   USBXpress: Trying new driver
   USBXpress: Fail; trying old driver
   USBXpress: Success; old driver will be used; SI_Open took 4 msec
   ```

   b) Send us information from the device manager
      i) Open Device Manager
      ii) You'll usually see a device named "USB API" or something like "Silicon Labs Si538x/4x EVB"
      iii) In either case, double click the EVB device, click the Driver tab, and send us a screen shot such as:
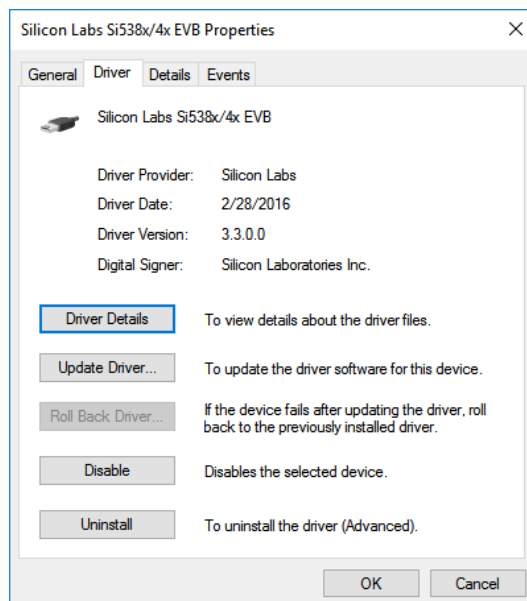
   c) Please contact your I.T. department if you need assistance gathering this information