

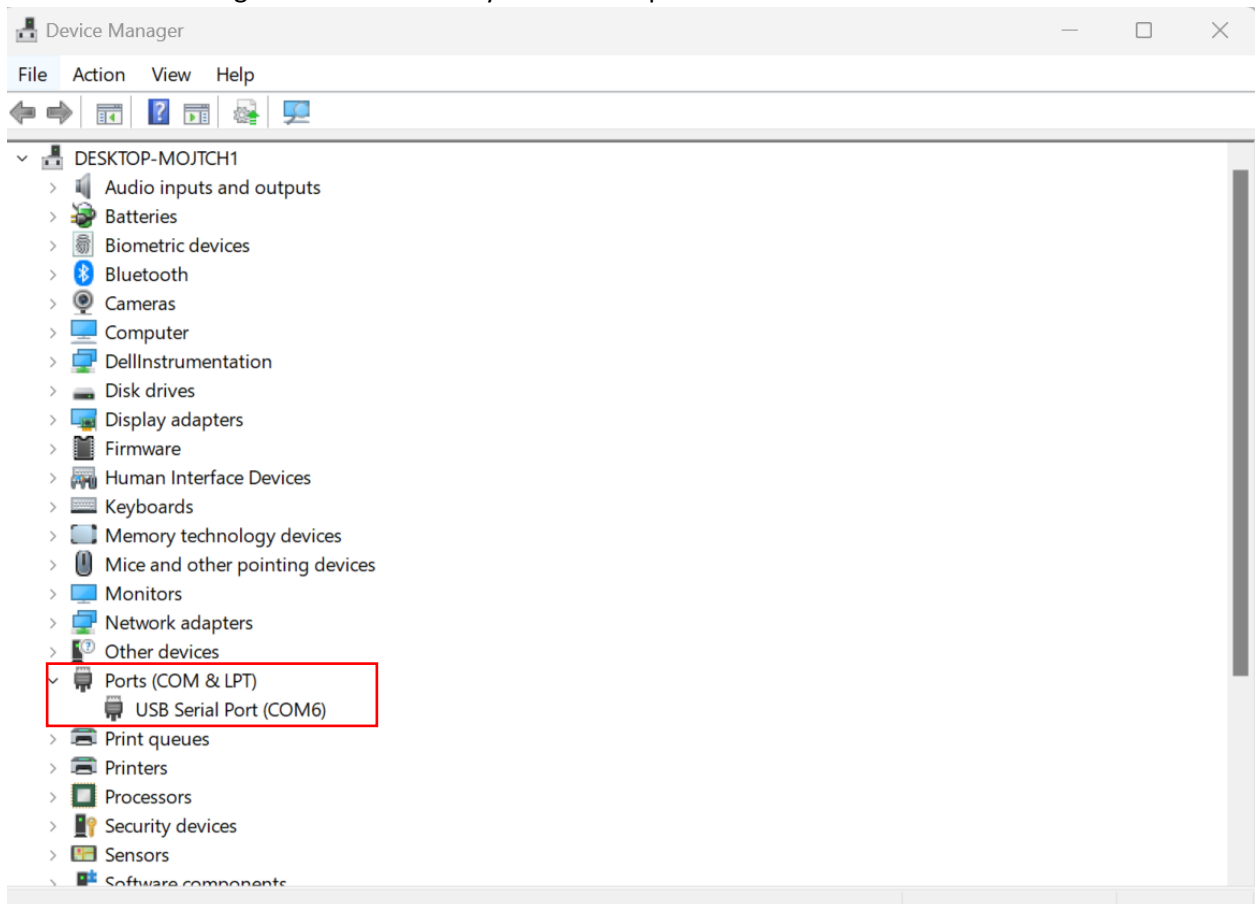
MCCI Mode Switch

This document contains instructions on how to configure the MCCI Model 3411 USB3.2 Gen2 Test Device <https://store.mcci.com/collections/usb-test-devices/products/model-3411>.

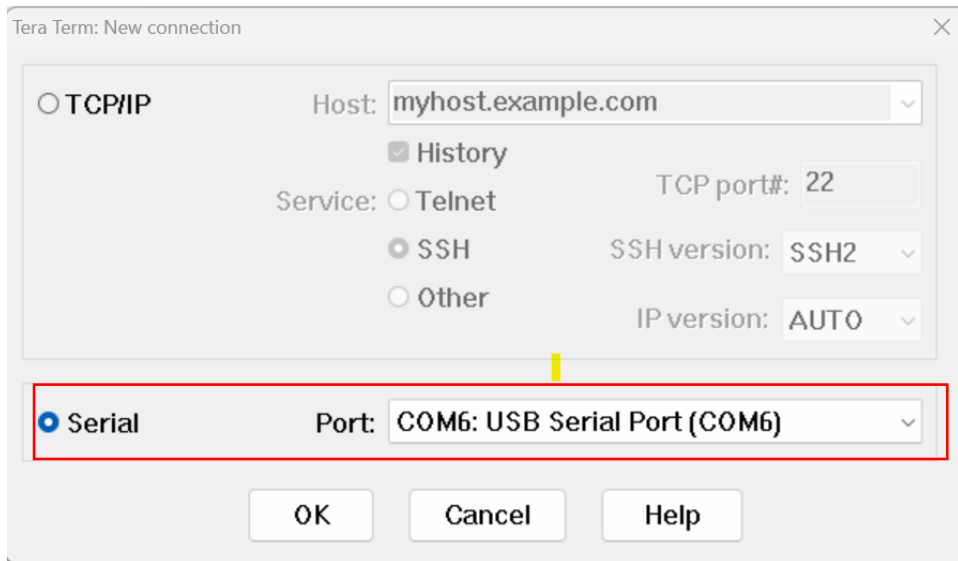
The MCCI device is a multi-mode device. In order to work correctly with USB-IF tools (USB4CV, XHCICV), it must be put into the mode that makes it behave as a USB-IF compliance device. In this mode, it will work identically to the Microsoft SuperMUTT. If it is not configured correctly, USB-IF tools will fail to identify it as a compliance device.

Mode Switching Instructions

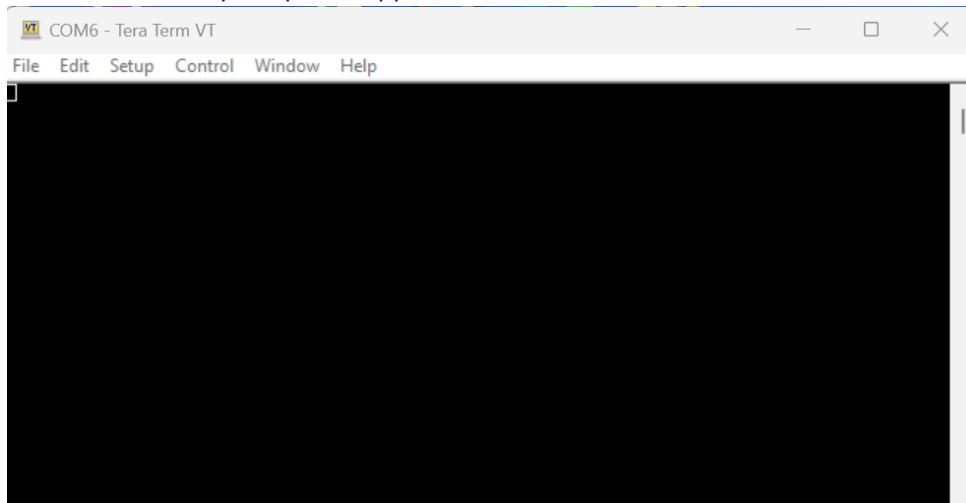
1. Connect the MCCI to the PC using a micro-B cable.
2. Go to Device Manager and confirm that you see COM port.



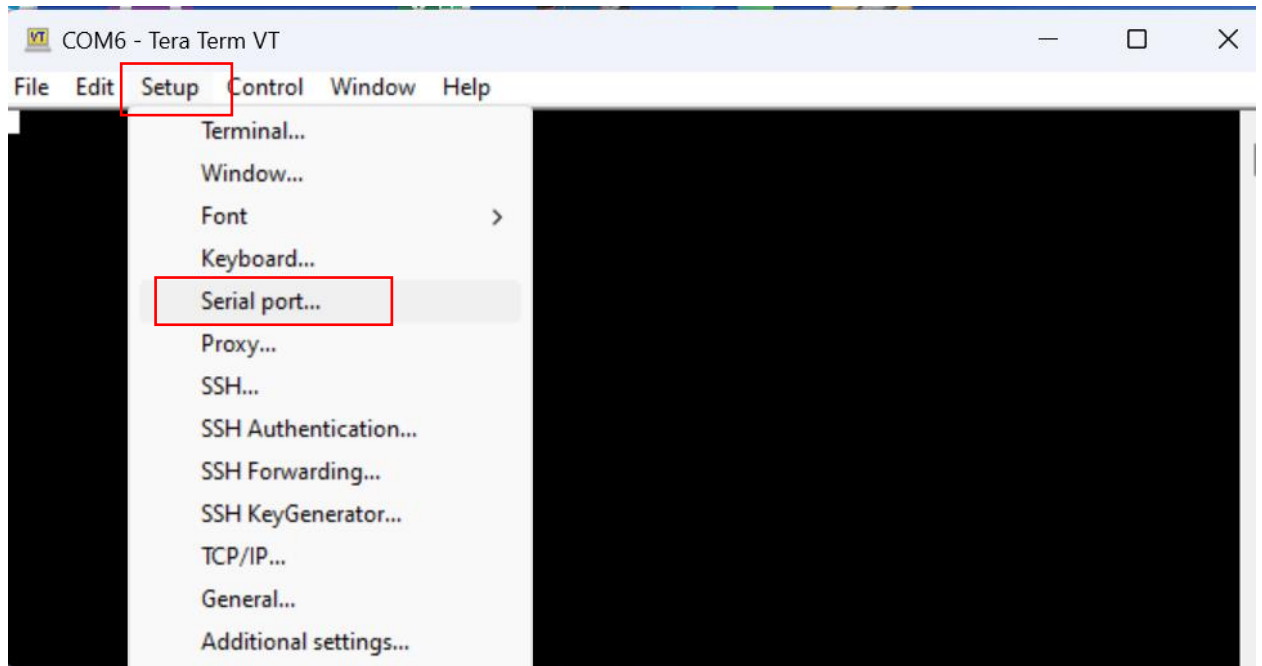
3. Download a terminal program such as Tera Term.
4. These instructions use Tera Term as an example.
5. Install Tera Term.
6. Once you launch Tera Term, a New Connection window will open. Choose Serial and select the COM port that the MCCI is connected to. Then press OK



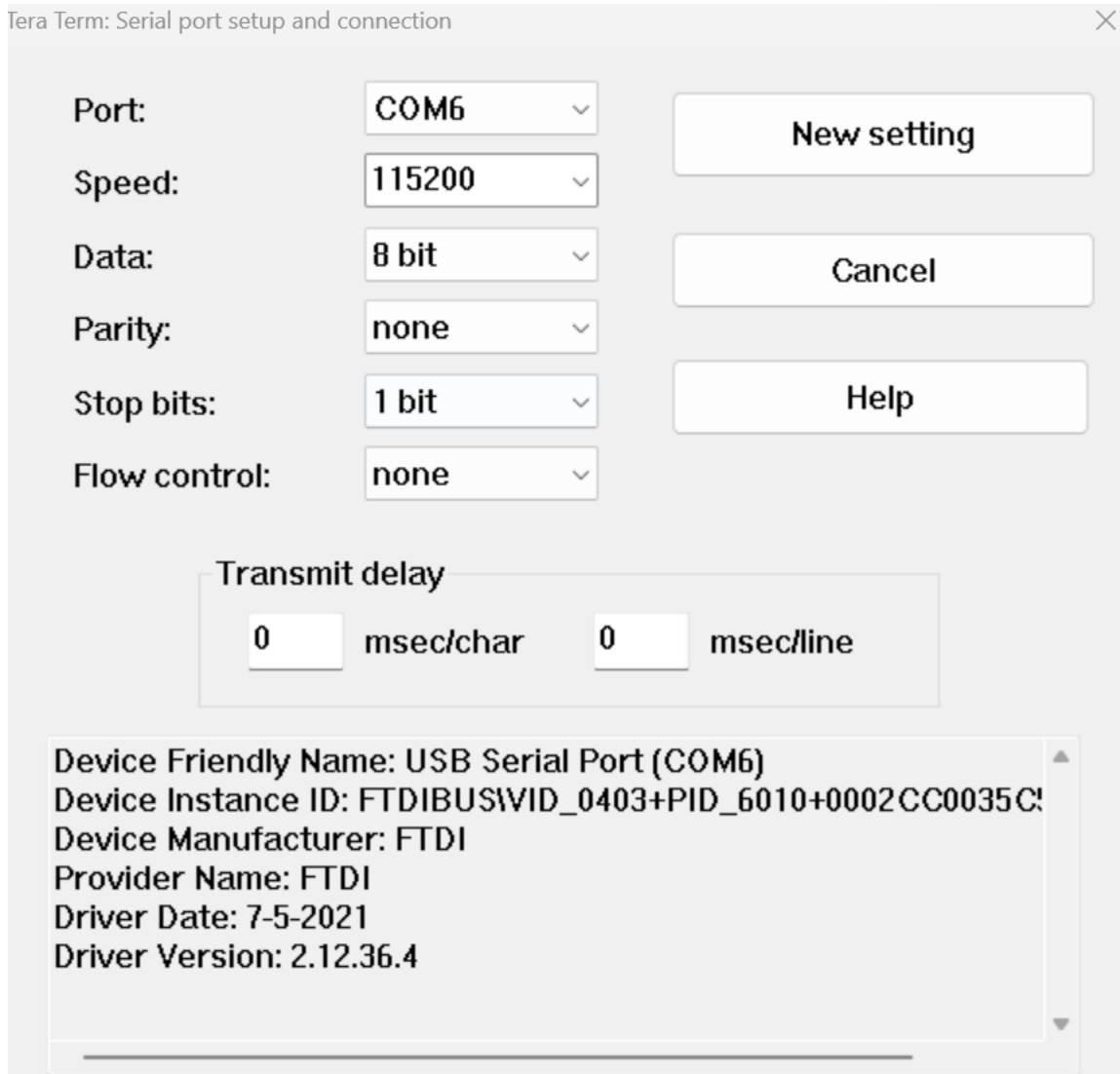
7. Then a command prompt will appear.



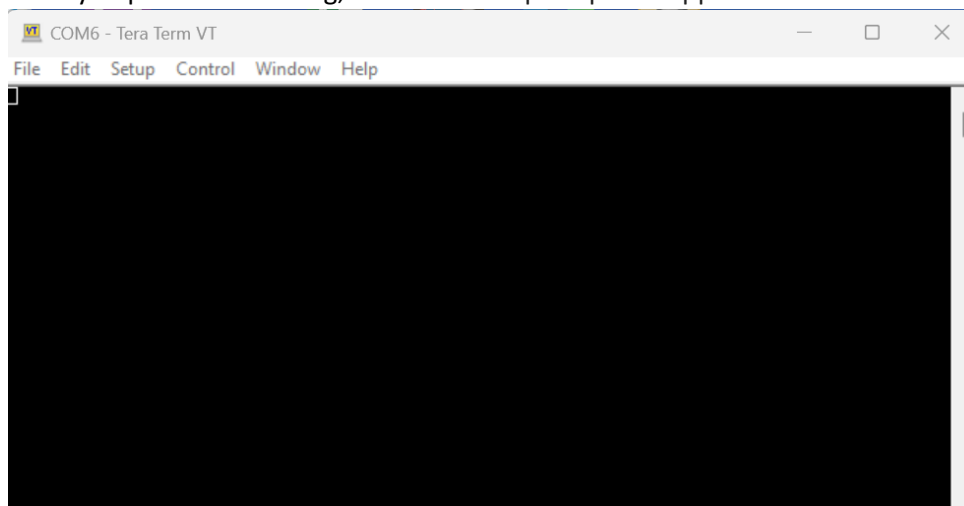
8. Then go to **Setup** and choose **Serial Port**



9. Then make sure the setting matches the setting below in the picture. Then press New setting

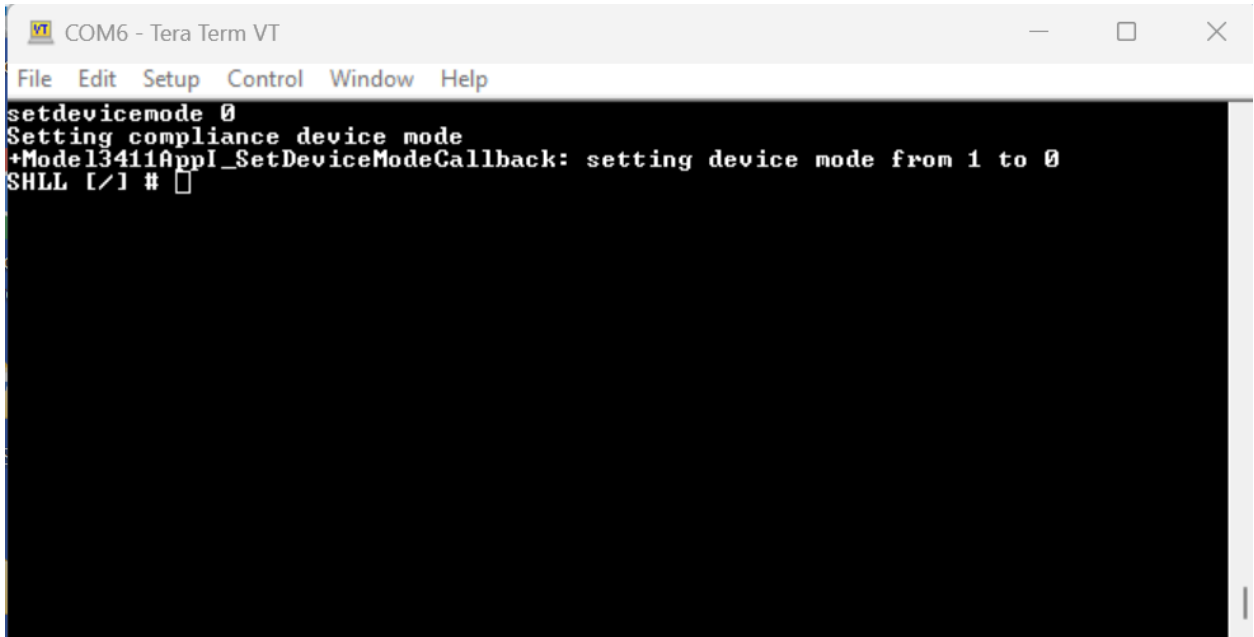


10. Once you press New setting, the command prompt will appear.

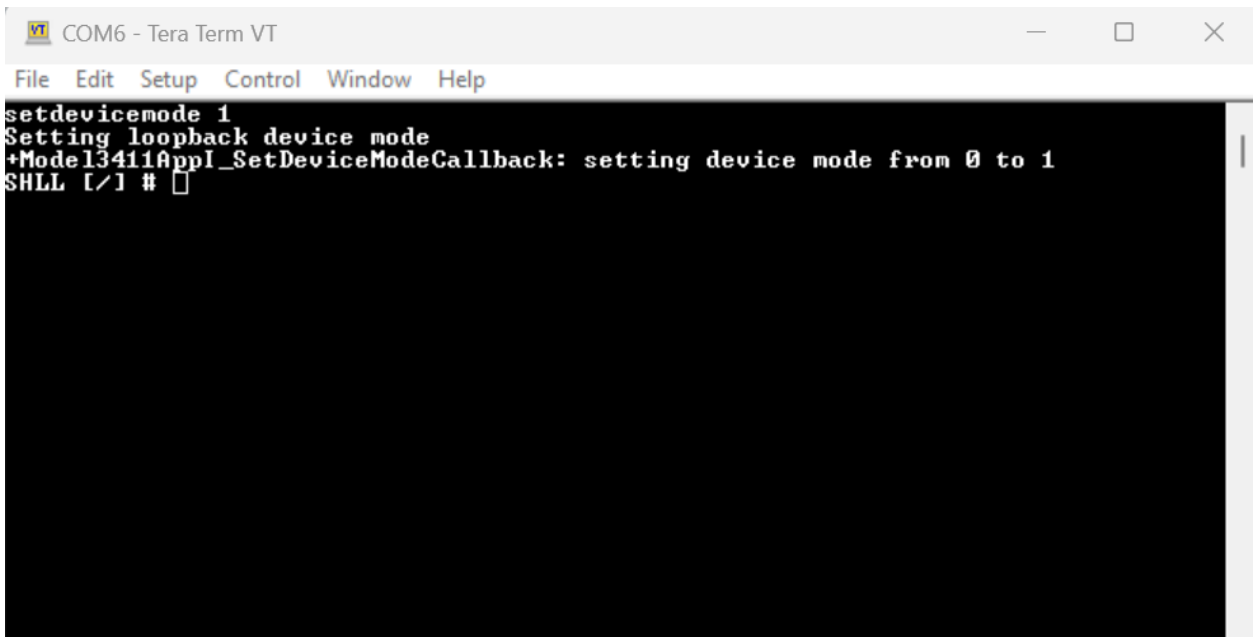


11. Now, you can change the device mode using setdevicemode command.

setdevicemode 0 → USB-IF compliance device mode
setdevicemode 1 → Loopback device mode



```
COM6 - Tera Term VT
File Edit Setup Control Window Help
setdevicemode 0
Setting compliance device mode
+Model3411Appl_SetDeviceModeCallback: setting device mode from 1 to 0
SHLL [/] #
```



```
COM6 - Tera Term VT
File Edit Setup Control Window Help
setdevicemode 1
Setting loopback device mode
+Model3411Appl_SetDeviceModeCallback: setting device mode from 0 to 1
SHLL [/] #
```

12. Once you select which mode you want the MCCI device to be in, you can close the prompt window

Verifying MCCI Device Mode

The device will present a different VID/PID, depending which mode it is in.

The MCCI device has two modes, a USB-IF compliance device mode and a Loopback device mode. Each mode has its own VID/PID. The VID/PID for the USB-IF compliance device mode is VID=040E, PID=F644 and the VID/PID for the Loopback device mode is VID=040E, PID=F645. Below is a Device summary showing the VID/PID.

If USB4CV or XHCICV does not recognize the device, check the VID/PID and make sure it is configured as a USB-IF compliance device.

```
APPLICATION: USB 3 Gen X Command Verifier
TEST SUITE: Device Summary.cvtests
OPERATING SYSTEM:
WORKSTATION:
DATE: Wednesday, April 19, 2023
TIME: 09:40:13 AM
OPERATOR: Dell_XPS_8940_#1
NUMBER OF TESTS: 1
LOG NAME: Device Summary - 2023-04-19 09-40-09
RESULT: passed

Initialize Test Suite
INFO      Test log initialized.
INFO      Log Level: Normal
INFO      User Input module initialized
INFO      Windows 10 Pro (Build 22000.1.amd64fre.co_release.210604-1628)
INFO      CVApp.exe ver 4.1.0.0
INFO      BaseUtilities.dll ver 4.1.0.0
INFO      CommandVerifierLog.dll ver 4.1.0.0
INFO      GuiHelper.dll ver 4.1.0.0
INFO      TestUtilities.dll ver 4.1.0.0
INFO      TestSuiteEngine.dll ver 4.1.0.0
INFO      xhci_DevelopIOCTL.dll ver 2.2.7.0
INFO      xhci_TestServices.dll ver 2.2.7.0
INFO      USBUtilities.dll ver 1.4.5.1
INFO      StackSwitcher.dll ver 1.4.5.1
INFO      xhci_CommandVerifierServices.dll ver 2.2.7.0
INFO      VIFReader.dll ver 4.1.0.0
INFO      XHCISpecVersion: 1.10.
INFO      Host 1 selected: xHCI Host: VID=0x1821, PID=0x2142 (PCI bus 4, device 0, function 0)
INFO      User selection from list: "SSP Device (USB Compliance) addr=1: VID=040E, PID=F644"
INFO      Please select USB Device to test
INFO      USB Device Under Test is operating at SuperSpeedPlus Gen2x1.
INFO      Topology: XHCI HC -- DUT
```

Figure 1: USB-IF XHCI compliance device mode

APPLICATION: USB 3 Gen X Command Verifier
TEST SUITE: Device Summary.cvtests
OPERATING SYSTEM:
WORKSTATION:
DATE: Wednesday, April 19, 2023
TIME: 09:38:51 AM
OPERATOR: Dell_XPS_8940_#1
NUMBER OF TESTS: 1
LOG NAME: Device Summary - 2023-04-19 09-38-43
RESULT: passed

Initialize Test Suite

```
INFO      Test log initialized.
INFO      Log Level: Normal
INFO      User Input module initialized
INFO      Windows 10 Pro (Build 22000.1.amd64fre.co_release.210604-1628)
INFO      CVApp.exe ver 4.1.0.0
INFO      BaseUtilities.dll ver 4.1.0.0
INFO      CommandVerifierLog.dll ver 4.1.0.0
INFO      GuiHelper.dll ver 4.1.0.0
INFO      TestUtilities.dll ver 4.1.0.0
INFO      TestSuiteEngine.dll ver 4.1.0.0
INFO      xhci_DevIOCTL.dll ver 2.2.7.0
INFO      xhci_TestServices.dll ver 2.2.7.0
INFO      USBUtilities.dll ver 1.4.5.1
INFO      StackSwitcher.dll ver 1.4.5.1
INFO      xhci_CommandVerifierServices.dll ver 2.2.7.0
INFO      VIFReader.dll ver 4.1.0.0
INFO      XHCISpecVersion: 1.10.
INFO      Host 1 selected: xHCI Host: VID=0x1B21, PID=0x2142 (PCI bus 4, device 0, function 0)
INFO      User selection from list: "SSP Device addr=1: VID=040E, PID=F645"
INFO      Please select USB Device to test
INFO      USB Device Under Test is operating at SuperSpeedPlus Gen2x1.
INFO      Topology: XHCI HC -- DUT
```

Figure 2: Loopback device mode