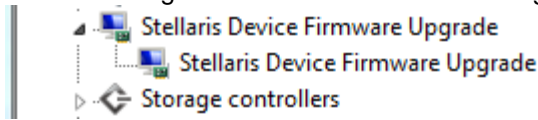


1.1. Flashing the XDS110 FW

1.1.1. Device Manager view from PC before flashing the XDS110 image



1.1.2. Install EMUPACK (by running the exe "ti_emupack_setup_6.0.579.0_win_32 (1).exe") . At the location where this is installed there is subfolder "ccs_base/common/uscif/xds110" .

1.1.3. In the windows command prompt give the following commands from the above folder (check xdsdfu.exe is present in that folder)

```
Xdsdfu.exe -b boot_loader.bin -r
```

The response on the command prompt should be as shown in figure below

```
USB Device Firmware Upgrade Utility
Copyright (c) 2008-2015 Texas Instruments Incorporated. All rights reserved.
Scanning USB buses for supported XDS110 devices...
Downloading boot_loader.bin to device...
```

XDS110 bootloader flashing

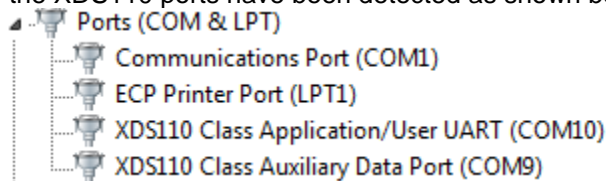
1.1.4. After downloading the bootloader.bin file and provide the next command which is shown below for downloading the firmware.bin

```
Xdsdfu.exe -f firmware.bin -r
```

The response on the command prompt should be as shown in Figure.

```
USB Device Firmware Upgrade Utility
Copyright (c) 2008-2015 Texas Instruments Incorporated. All rights reserved.
Scanning USB buses for supported XDS110 devices...
Downloading firmware.bin to device...
```

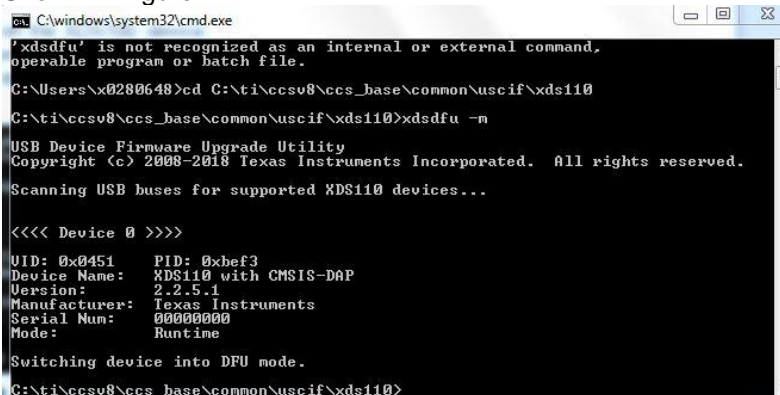
1.1.5. Power cycle the board and re-plug the USB cable. Navigate to Device Manager on the PC to see whether the XDS110 ports have been detected as shown below.



Please note down the COM port number for "XDS110 Class Application/User UART" and "XDS110 Class Auxiliary Data Port". These will be needed later for flashing binaries to the IWR6843 device.

1.1.6. Adding the serial number on the XDS110 device:

In the same command prompt using the Xdsdfu.exe application provide the “*xdsdfu -m*” command which puts the device into programming mode and command execution is shown in Figure



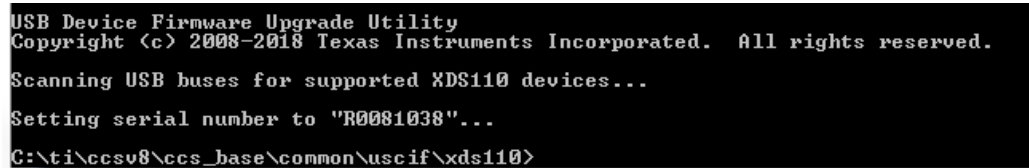
```
C:\windows\system32\cmd.exe
'xdsdfu' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\0200648>cd C:\ti\ccsv8\ccs_base\common\uscif\xds110
C:\ti\ccsv8\ccs_base\common\uscif\xds110>xdsdfu -m
USB Device Firmware Upgrade Utility
Copyright (c) 2008-2018 Texas Instruments Incorporated. All rights reserved.
Scanning USB buses for supported XDS110 devices...

<<<< Device 0 >>>>
UID: 0x0451      PID: 0xbef3
Device Name:    XDS110 with CMSIS-DAP
Version:       2.2.5.1
Manufacturer:  Texas Instruments
Serial Num:    00000000
Mode:          Runtime
Switching device into DFU mode.
C:\ti\ccsv8\ccs_base\common\uscif\xds110>
```

Figure:XDS110 programming mode

1.1.7. Provide the following command for programming the serial number

MMWAVEICBOOST -> xdsdfu -s R0081038 -r



```
USB Device Firmware Upgrade Utility
Copyright (c) 2008-2018 Texas Instruments Incorporated. All rights reserved.
Scanning USB buses for supported XDS110 devices...
Setting serial number to "R0081038"...
C:\ti\ccsv8\ccs_base\common\uscif\xds110>
```

1.1.8. Read the programmed serial number to confirm by using the below command and confirm the serial number as shown in the Figure

xdsdfu -e



```
USB Device Firmware Upgrade Utility
Copyright (c) 2008-2018 Texas Instruments Incorporated. All rights reserved.
Scanning USB buses for supported XDS110 devices...

<<<< Device 0 >>>>
UID: 0x0451      PID: 0xbef3
Device Name:    XDS110 with CMSIS-DAP
Version:       2.2.5.1
Manufacturer:  Texas Instruments
Serial Num:    R0081038
Mode:          Runtime
Found 1 device.
```

Figure : Reading programmed serial number