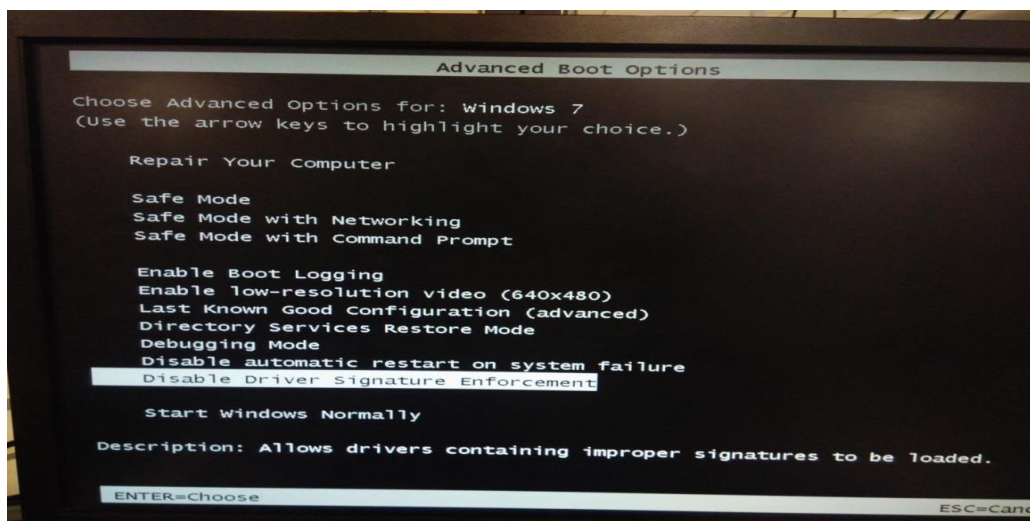# Contents

1   Getting Started Guide Virtex7 XT

Important Note: Please turn off the board while installing or uninstalling these Windows drivers.

Steps to install and remove Virtex7 XT TRD drivers in Windows 7 64 bit OS are listed below:

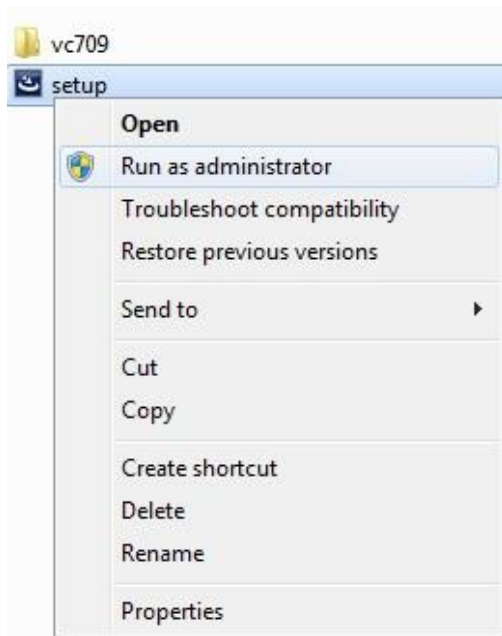## 1.1   Disable Driver Signature Verification

Windows allows only drivers with valid signatures obtained from trusted certificate authorities to load in Windows 7 64 bit OS. For beta release, Virtex 7 XT drivers do not have a valid signature and hence user has to Signature Verification functionality in their test system.

To disable driver Signature verification user has to navigate to the advanced Boot options menu by pressing F8 after power on. Once the menu is seen, the user has to navigate to "Disable Driver Signature Enforcement" option and select it as shown below.
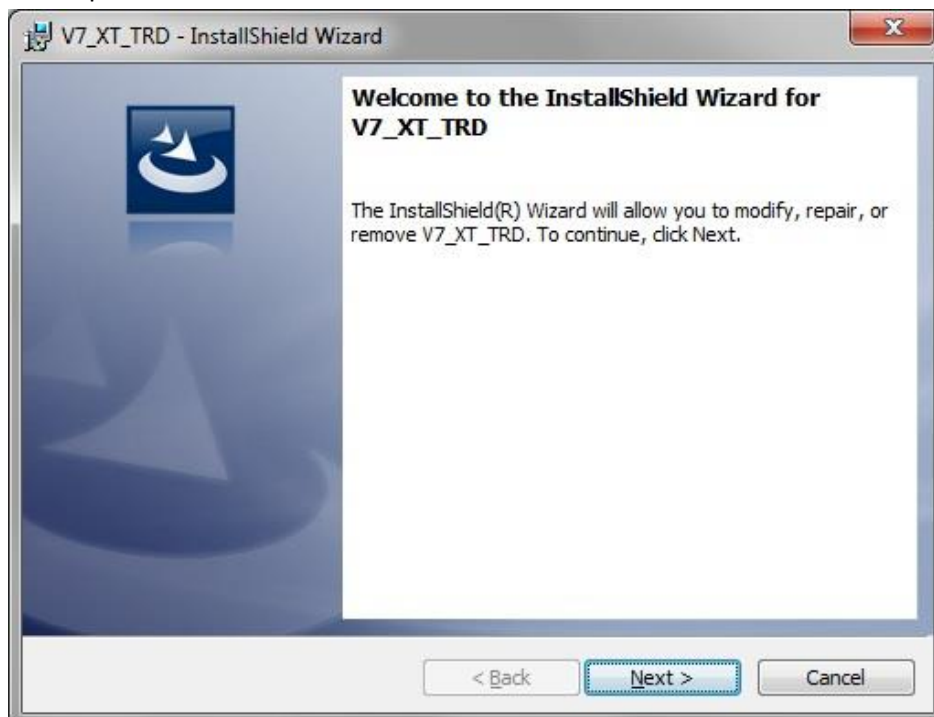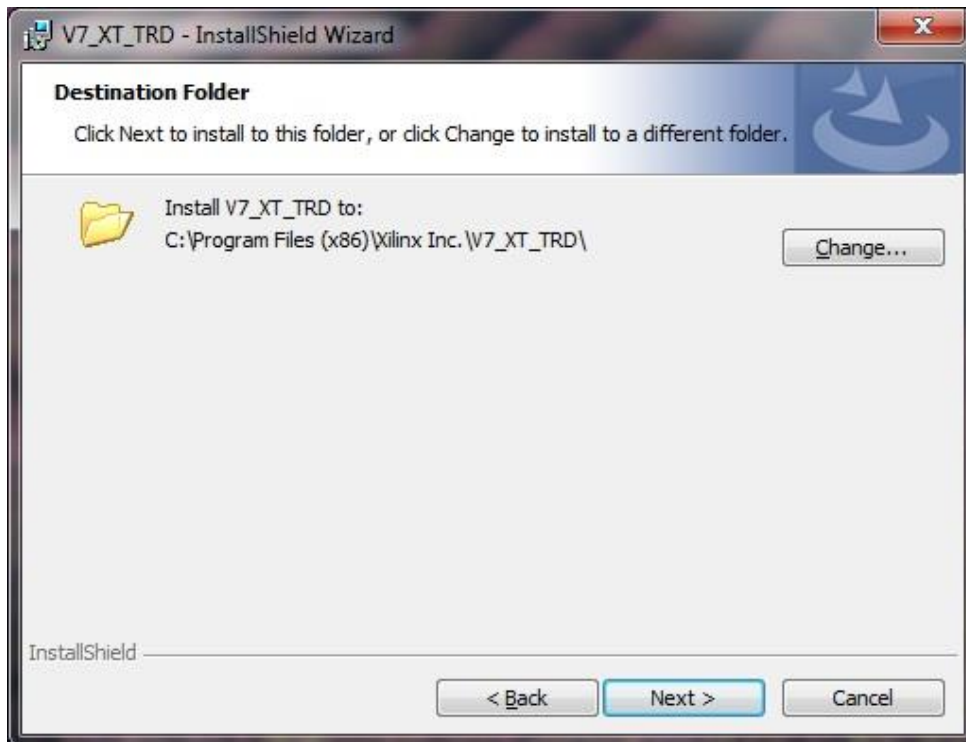
1.2 Usage of Setup file to install drivers

1. Navigate to the folder in which the TRD is downloaded through Windows explorer and invoke the setup file with Administrator privileges.

2. User will see the following Welcome screen. Upon clicking "Next" the installation procedure would proceed further.

3. User might choose a different Installation location to install the drivers or proceed with the default path after clicking on "Next".
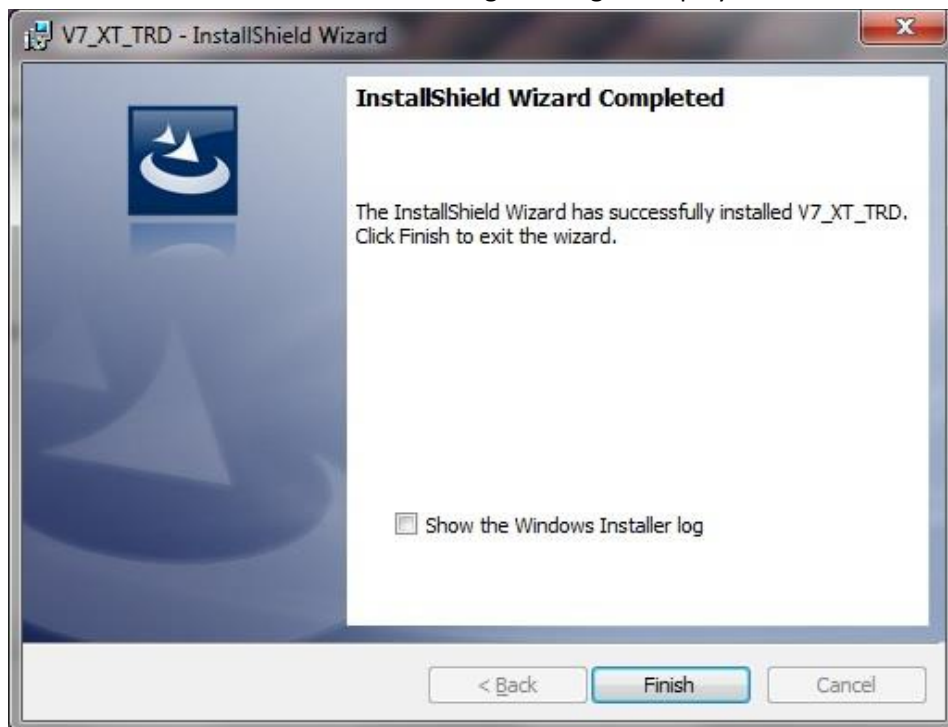

4. User can click on "Install" in the following screen to begin Installation procedure.
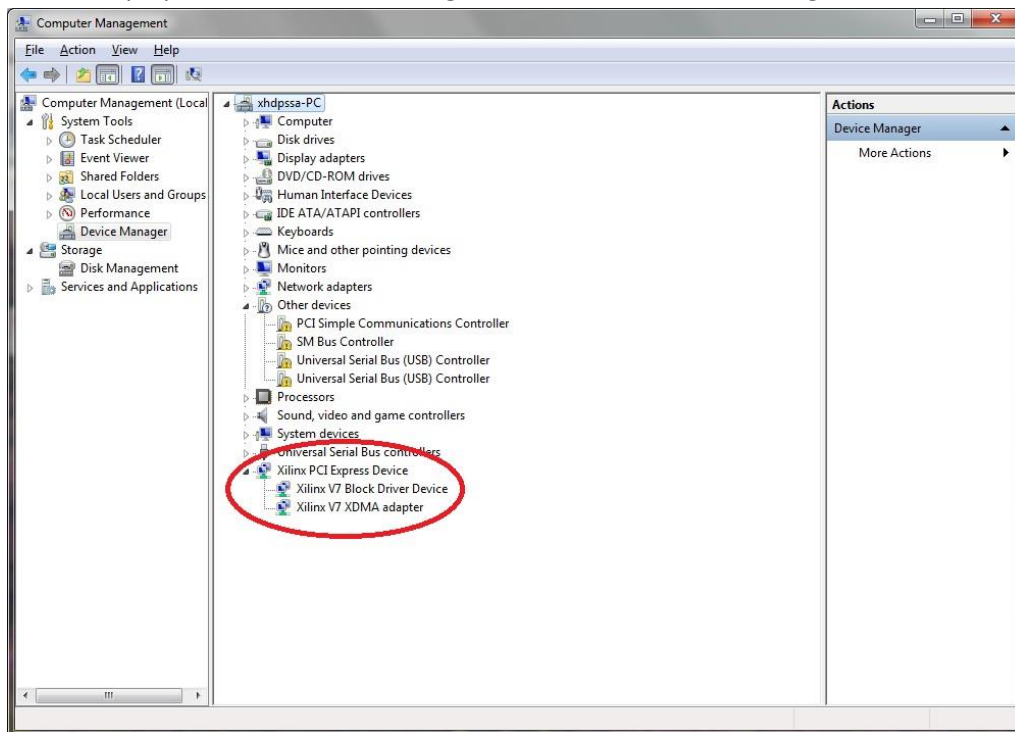
5. A warning screen gets displayed while installing these drivers as they are not signed by a trusted certificate authority yet. To install the drivers user is advised to ignore the warning and click on "Install this driver software anyway" option thrice.

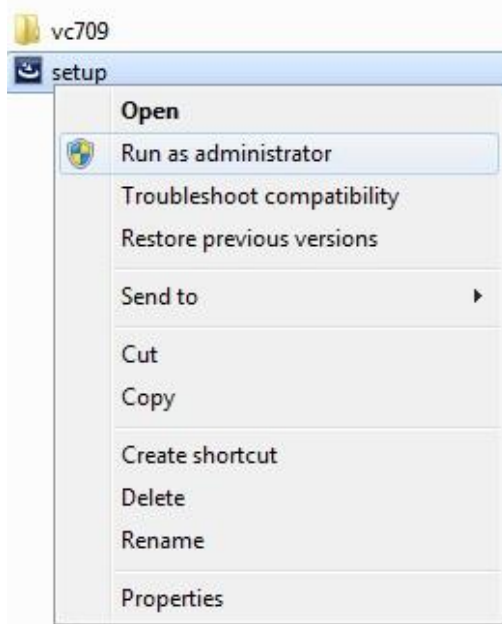6. After successful installation the following screen gets displayed.

7. Upon reboot the VC709 XT TRD drivers will be loaded if vc709 board (configured with the proper design bit stream) is placed in the PCIe slot and powered on. After the drivers are loaded they will be displayed under Device Manager as shown in the below image.
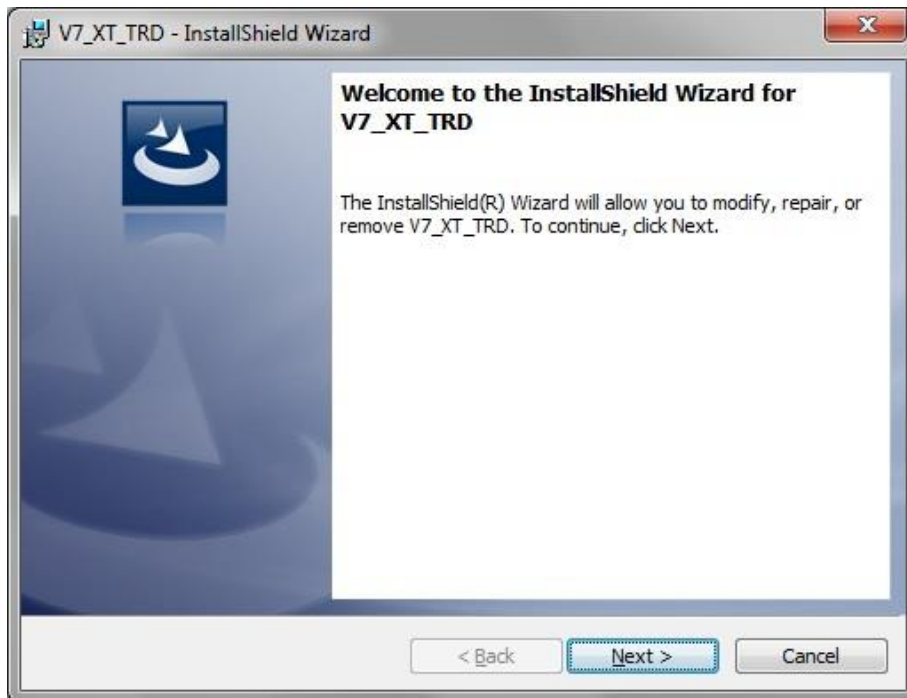

1.3 Usage of setup file to remove drivers

1. Navigate to the folder in which the TRD is downloaded through Windows explorer and invoke the setup file with Administrator privileges.

2. User will see the following Welcome screen. Upon clicking "Next" the driver removal procedure would proceed further.
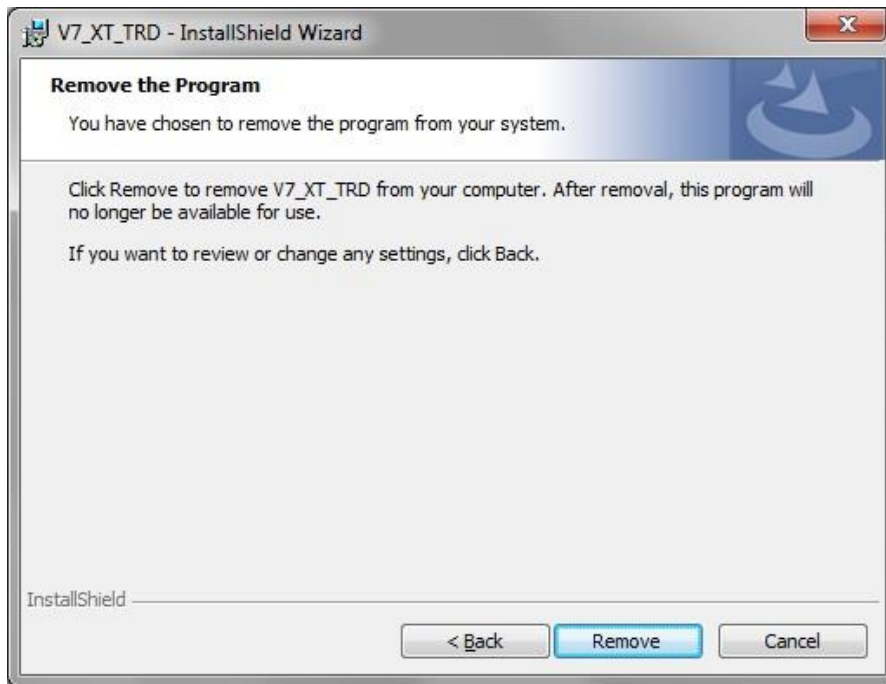

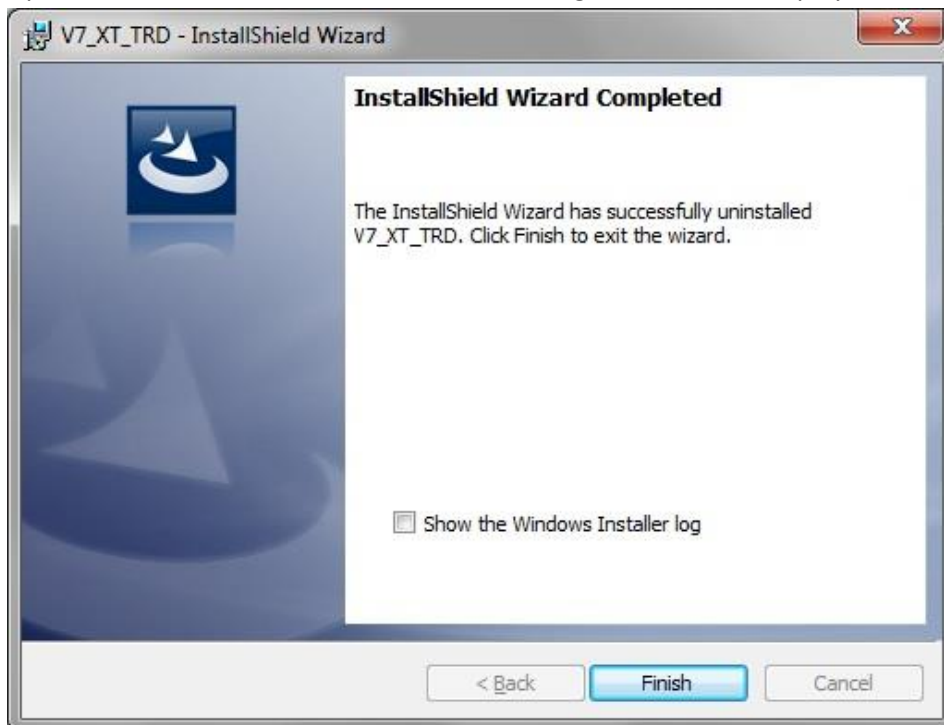3. User must select Remove option to remove drivers.

4. Upon clicking "Remove" in the following screen the drivers will be removed from the system.
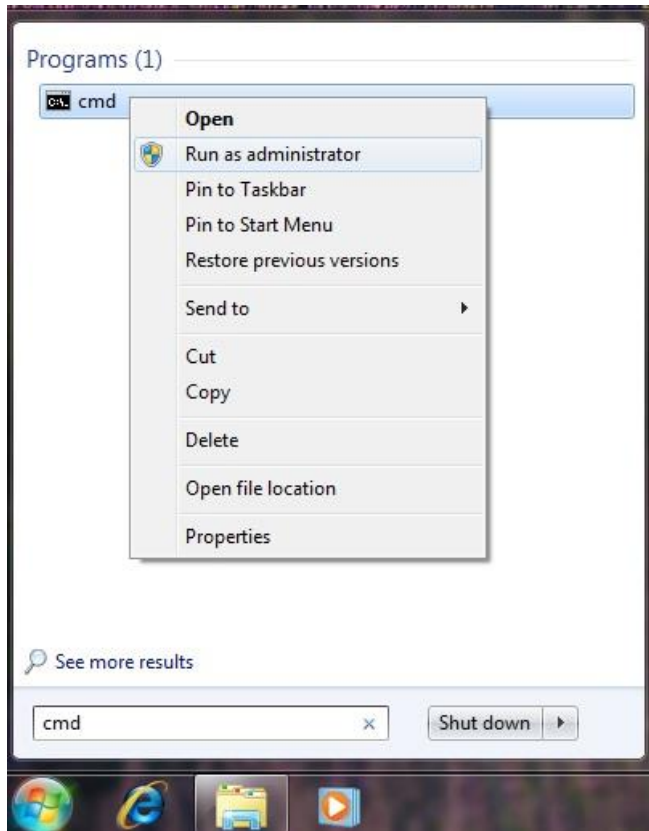

5. Upon successful removal of drivers the following screen will be displayed.
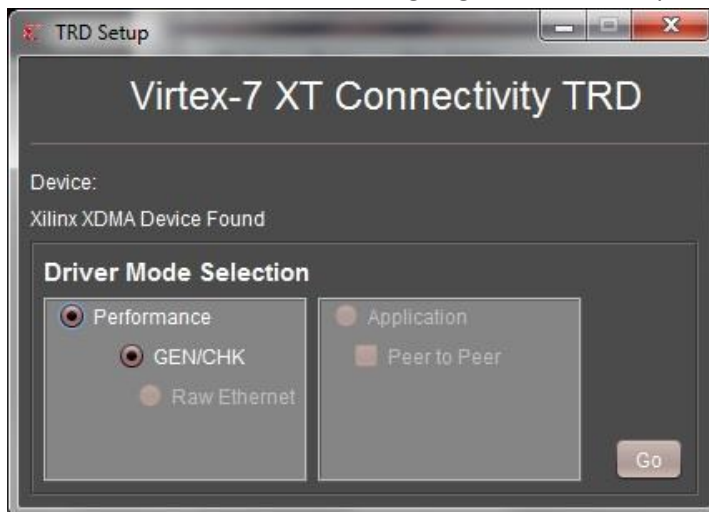
1.4 Invoking V7 XT TRD GUI

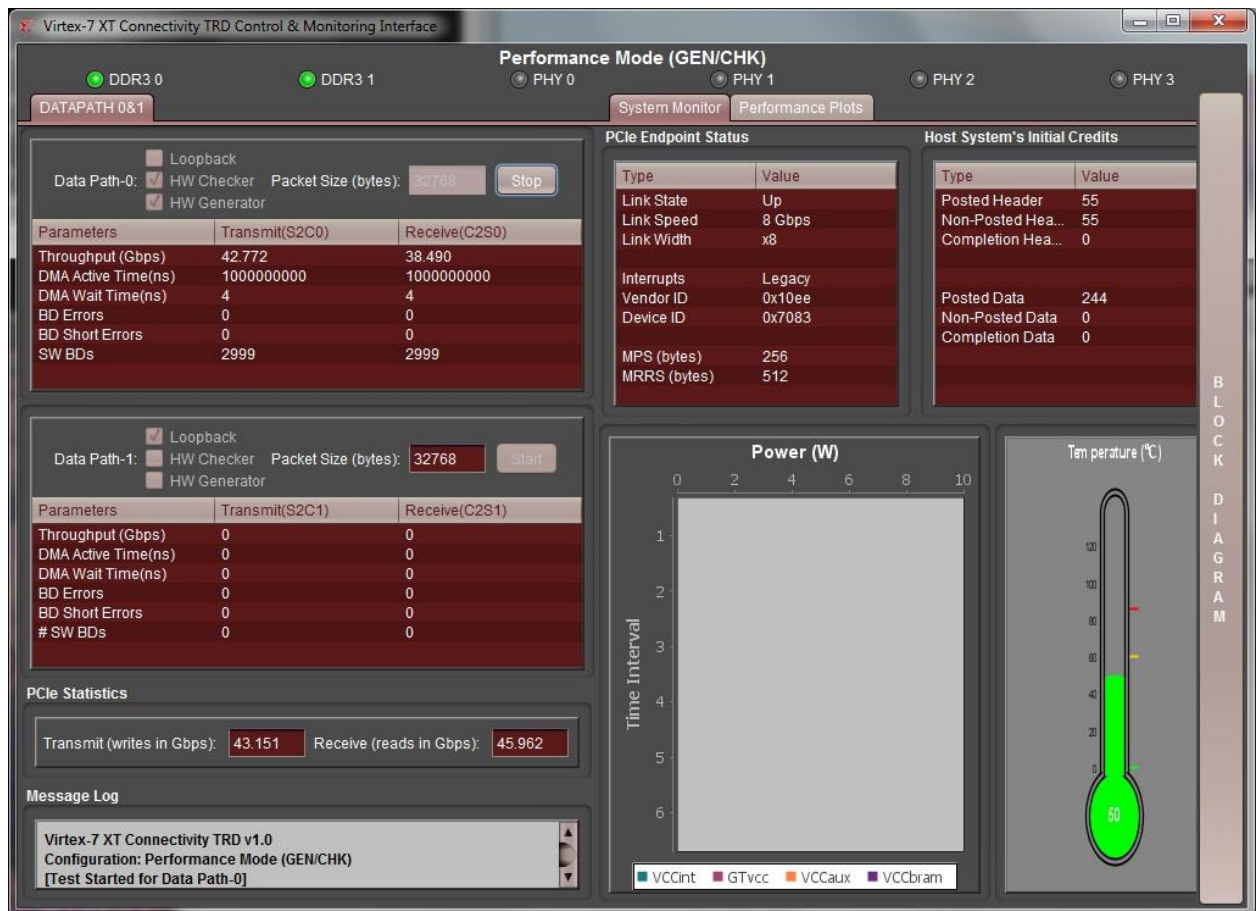1. To invoke the V7 XT TRD gui user has to start a command line terminal with Administrator privileges.

2. User has to Navigate to the TRD downloaded folder from the command line and then change directory to gui. To invoke the GUI a batch file "rungui.bat" has to be executed from the command line interface. A Landing Page similar to the picture below will be displayed.

3. Once user selects "Go" on the Landing Screen a Main Page from which I/O transfers can be initiated will be shown.

1.5 Prerequisites for running GUI

The graphical user interface for V7 XT TRD is based on Java and hence java 1.7.60 has to be installed before invoking the GUI.

1.6 Prerequisites for compiling drivers

User needs to install Visual Studio 2012, Win DDK 7.6 and Java jdk 1.7.60 to build all the projects in the solution.