VC707 Power Bus Reprogramming

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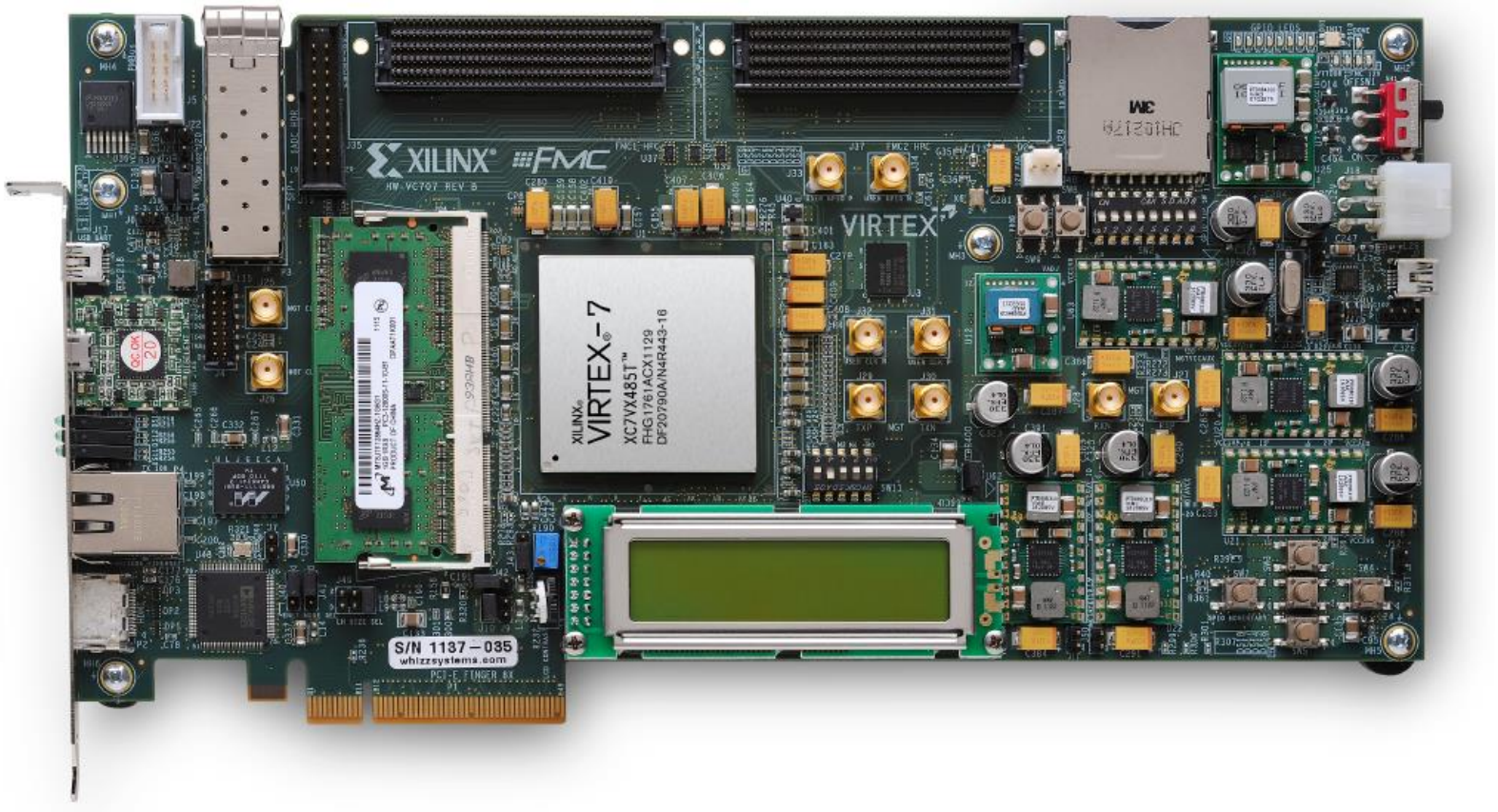
Caution!

- **The Texas Instruments software used in this presentation can adjust the power supply outputs on the VC707**
- **If used improperly, it can seriously damage your VC707**
- **Before making any adjustments not specifically covered in this presentation:**
  - Understand the power requirements for Virtex-7 Devices
  - Understand the consequences of the change you are making

Xilinx VC707 Board



Hardware Requirements

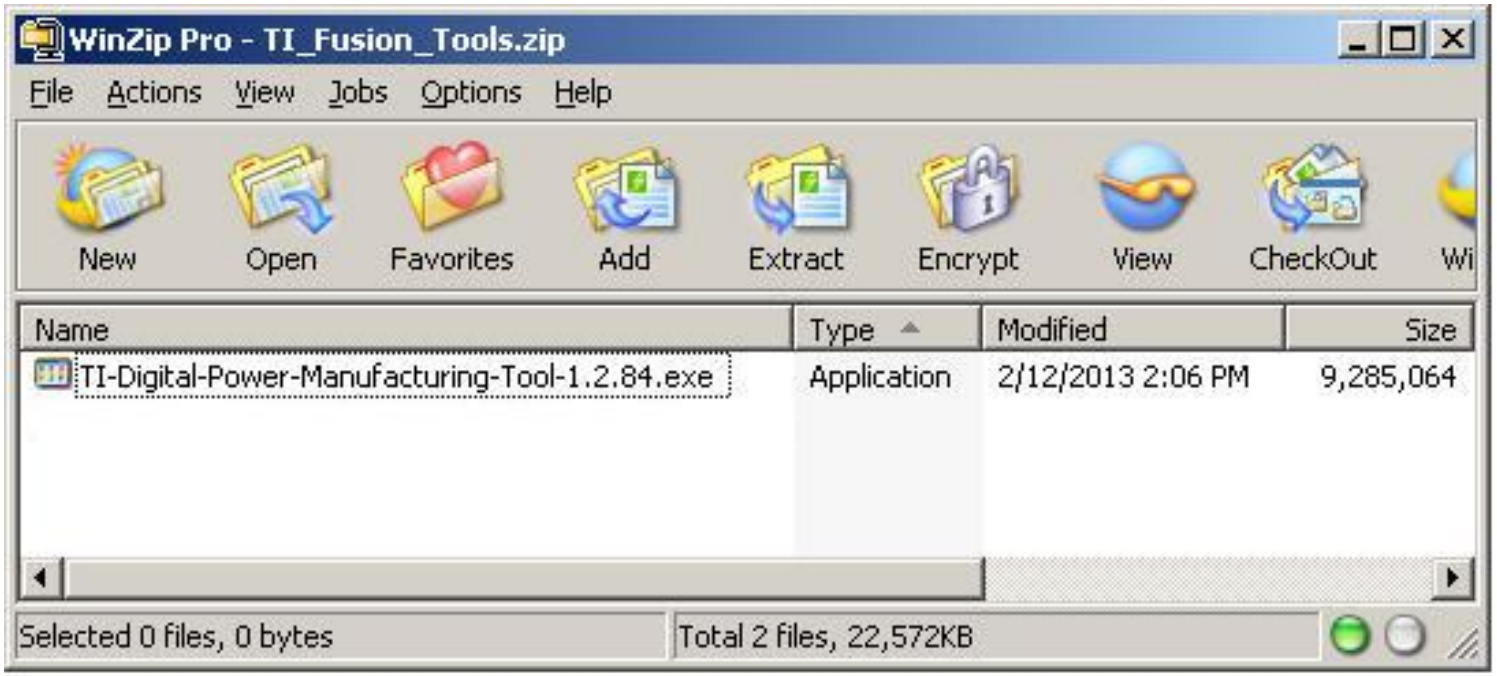
- **Texas Instruments USB Interface Adapter EVM**
  - TI Part Number: USB-TO-GPIO

Software Requirements

- **Texas Instruments Power Software**
  - TI Part Number: FUSION_MFR_GUI
  - Download: Latest Release at http://www.ti.com/tool/fusion_mfr_gui

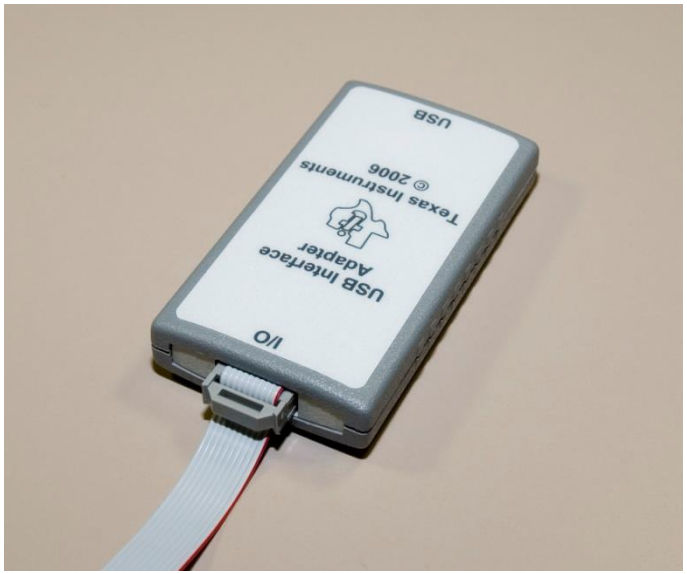
Software Setup

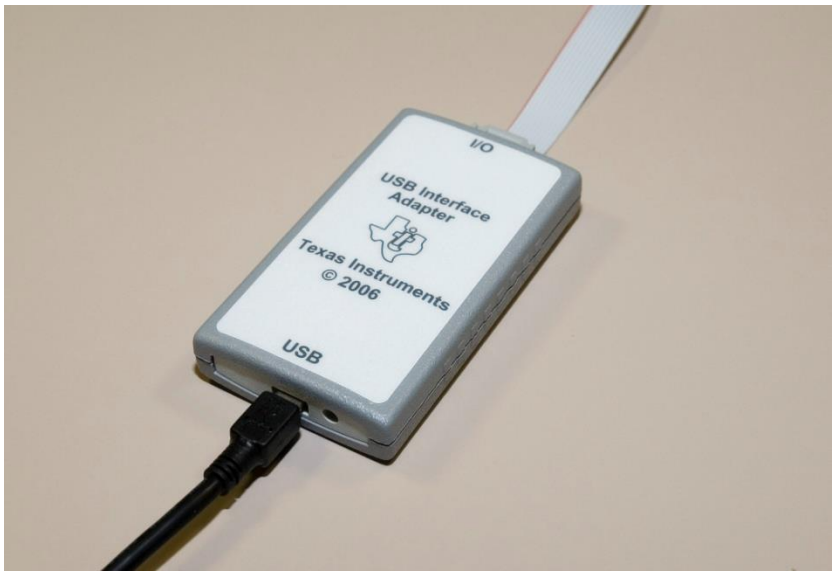
- Install the TI Fusion Digital Power Manufacturing Software



Connect TI USB Interface Adapter

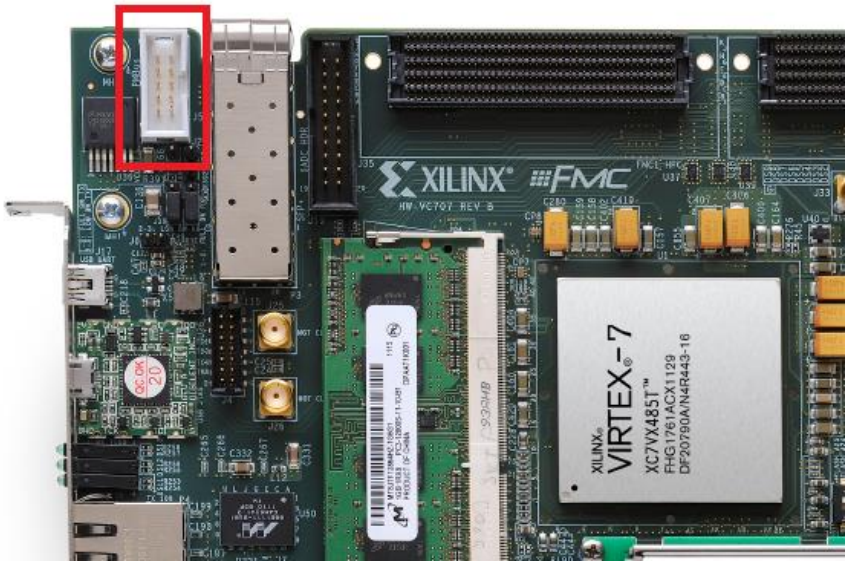
- **On the TI USB Adapter**
  - Connect the Ribbon Cable
  - Connect the USB Cable





Connect TI USB Interface Adapter (2)

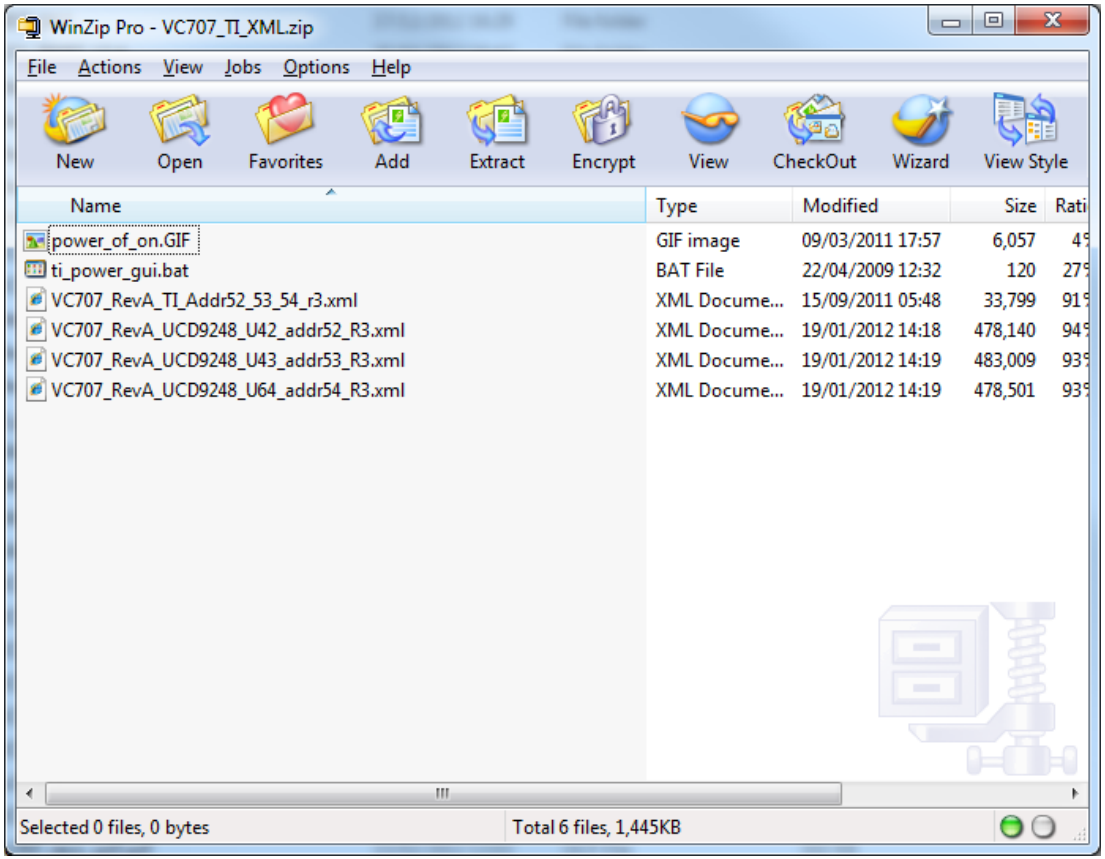
- **Connect the Ribbon Cable to the VC707**
  - Red Stripe towards pin 1



  - Insert the “A” end of the USB cable into a PC USB port (do not use a docking station or USB hub port)
  - Turn on the VC707 board

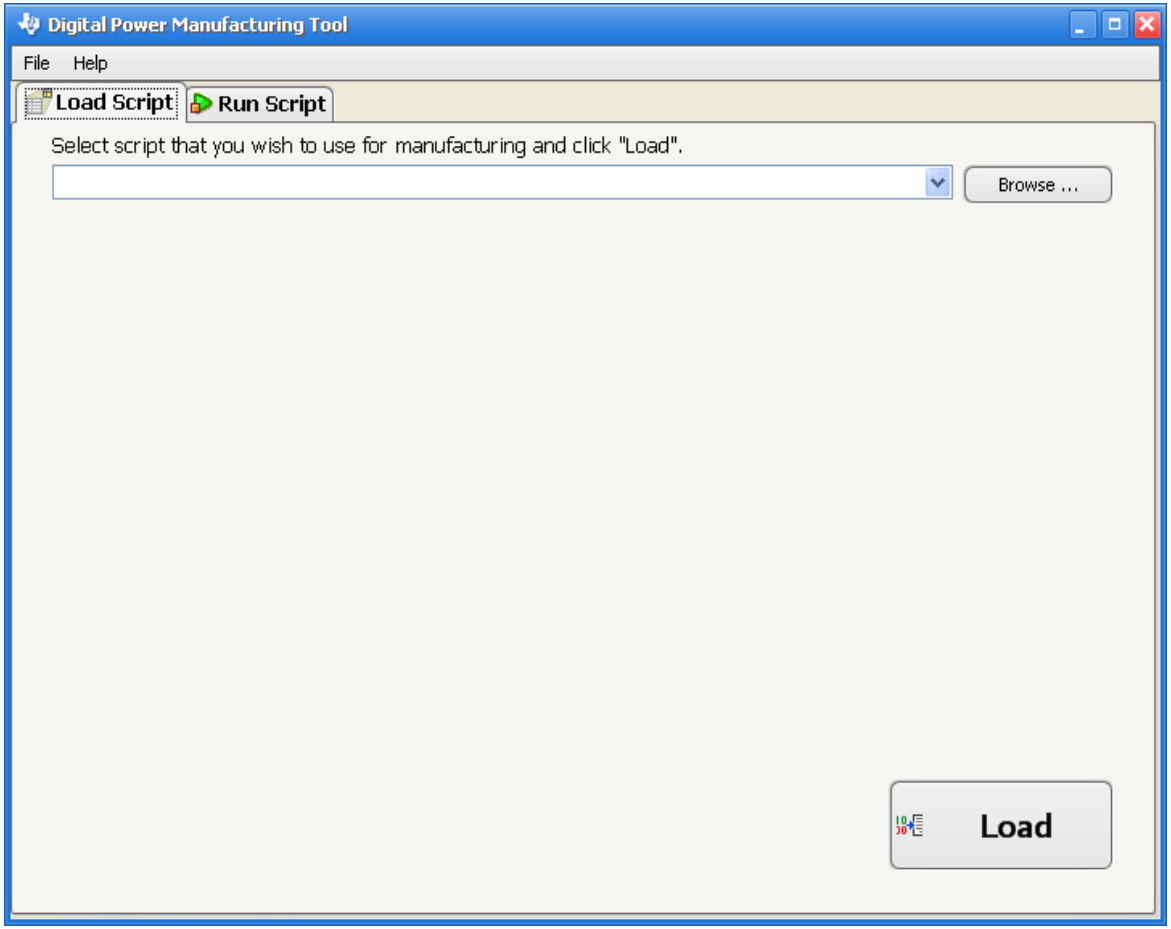
Restoring Power Levels

- Unzip included file: VC707_TI_XML.zip



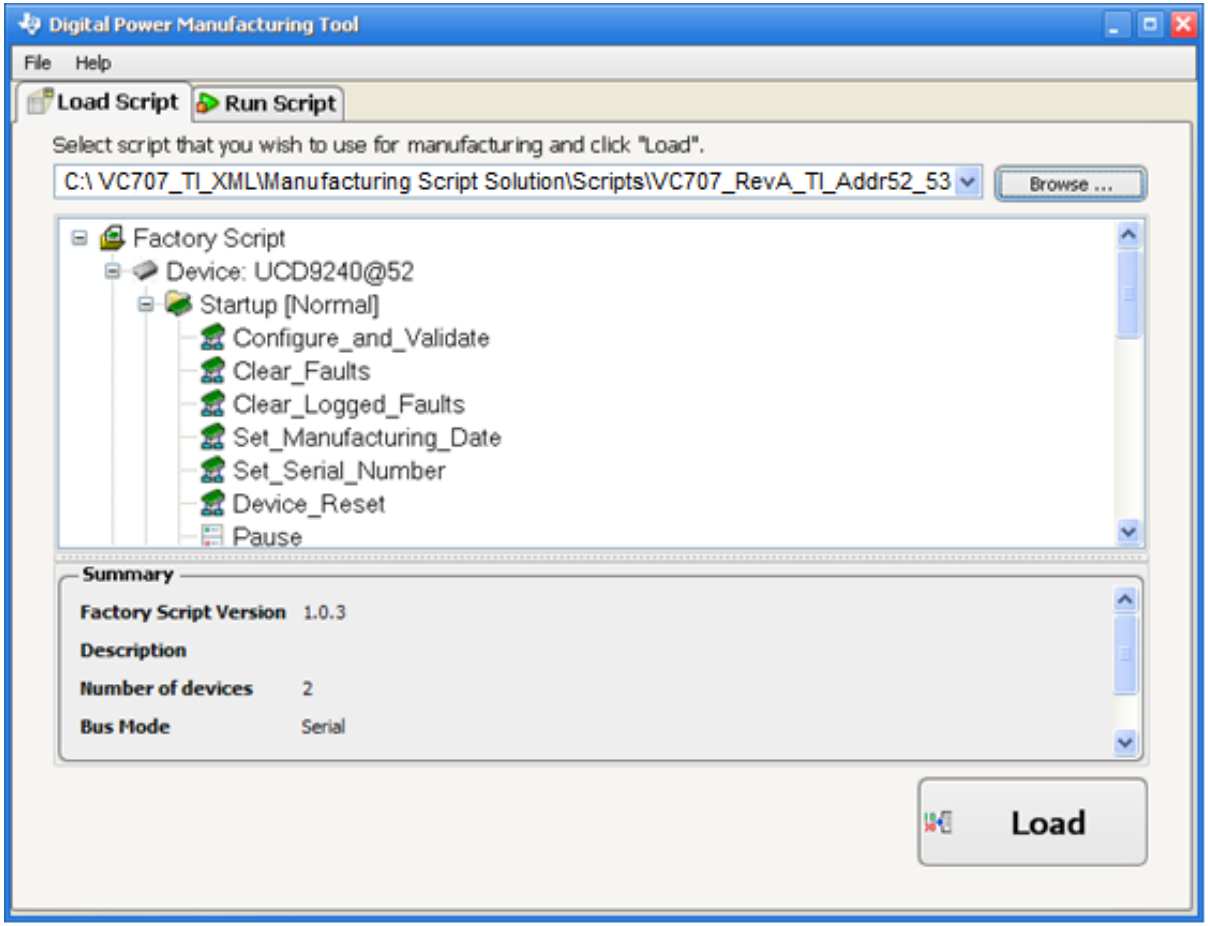
TI Fusion Digital Power Manufacturing Tool

- Open Manufacturer's GUI



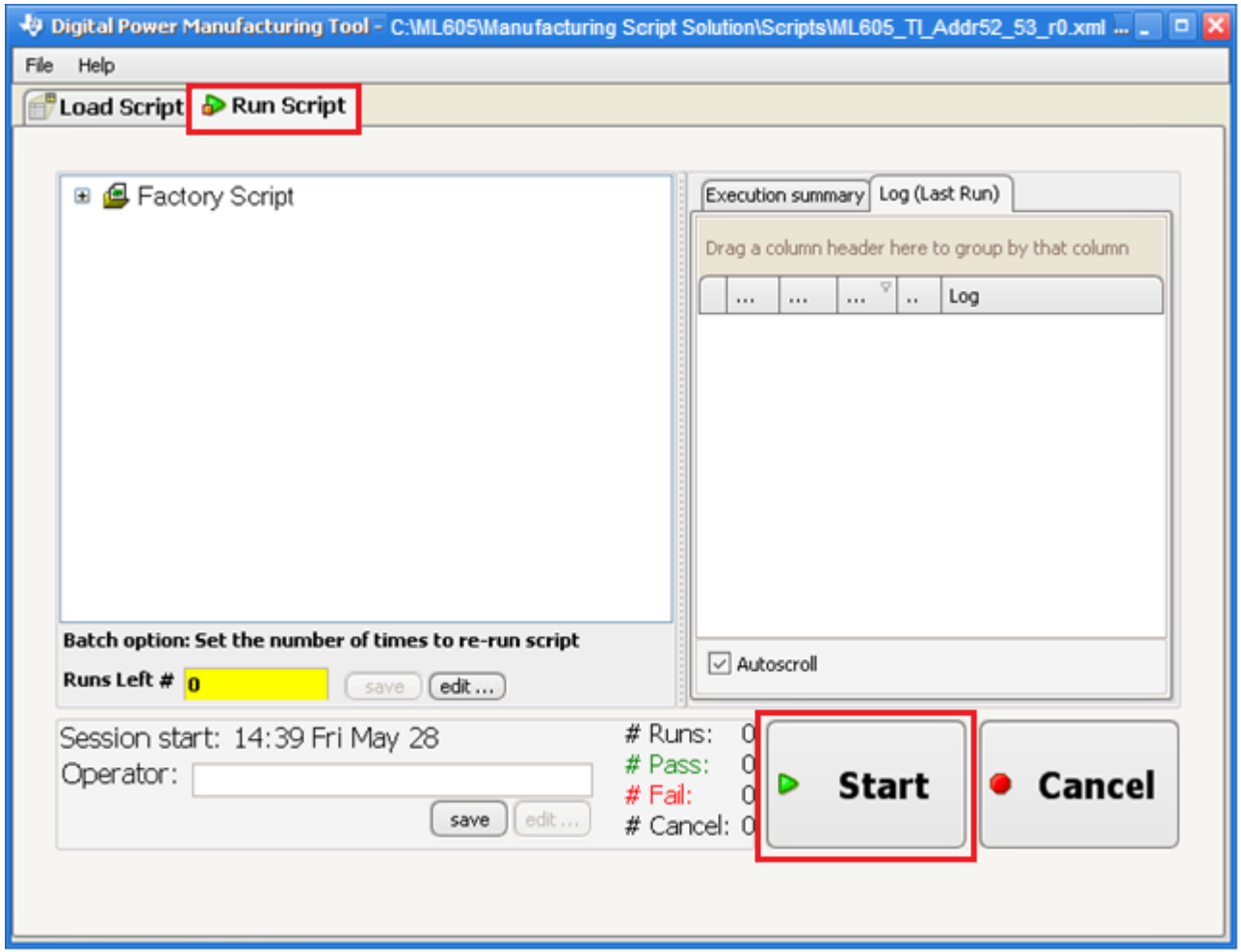
TI Fusion Digital Power Manufacturing Tool

- **Load xml script from VC707_TI_XML.zip directory**
  - Manufacturing Script Solution/Scripts/VC707_TI_Addr52_53_54_r3.xml



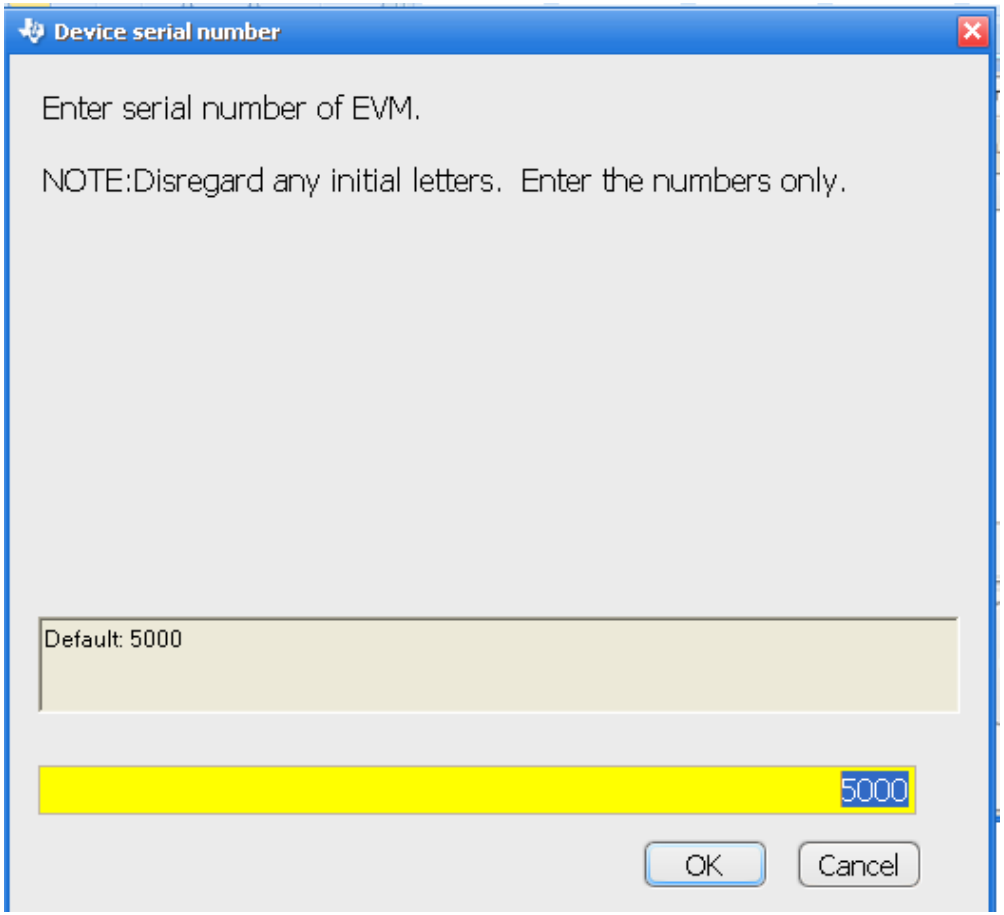
TI Fusion Digital Power Manufacturing Tool

- Click Run Script tab and then Start



TI Fusion Digital Power Manufacturing Tool

- Operator ID is irrelevant
- Click OK and wait for the board to finish programming
- Default Serial number can also remain as is



TI Fusion Digital Power Manufacturing Tool

- **Finished!**