GETTING STARTED

1. If not previously installed, go to www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx to download and install the Silicon Labs CP210x USB-to-UART driver.

2. Please go to www.ultrazed.org/product/ultrazed-pcie-carrier-card and download the PCIe Carrier Card Out of Box boot image files as well as the README file.

3. Follow the instructions in the README file to copy the boot image onto the Avnet supplied microSD card.

4. Plug the UltraZed-EG SOM onto the PCIe Carrier Card via JX1/JX2/JX3 connectors.

5. Set the UltraZed-EG SOM SW2 Boot Mode switch (MODE[3:0] = SW2[4:1]) to ON, OFF, ON, and OFF positions (Boot Mode set to SD Card, MODE[3:0] = 0x5).

6. Insert the microSD card into the J1 microSD card slot.


8. Connect the USB A-mini-B cable to J2 on the PCIe Carrier Card and the USB port of the PC. This will provide USB-UART connection to the board.

9. Connect 12V power supply to J8 on the PCIe Carrier Card.

10. Use Device Manager to determine the COM Port. Open a terminal program, configure it to 115200/8/n/1/n.

11. Slide the SW7 power switch to the ON position on the PCIe Carrier Card.

12. The out-of-box design will run and you will see the following (Fig.1) on the UART terminal (please allow time for Linux to boot). You should also see the PS on-board user Red LED flashing.


If you are using the UltraZed-EG SOM with ES1 silicon:

- Use the software voucher shipped with the kit to obtain and install Vivado with ES1 license.
- Create a text file called init.tcl and enter the following line: enable_beta_device*
- Save and close the init.tcl file.
- Place the init.tcl file in the \Xilinx\Vivado\2016.x\scripts folder.
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