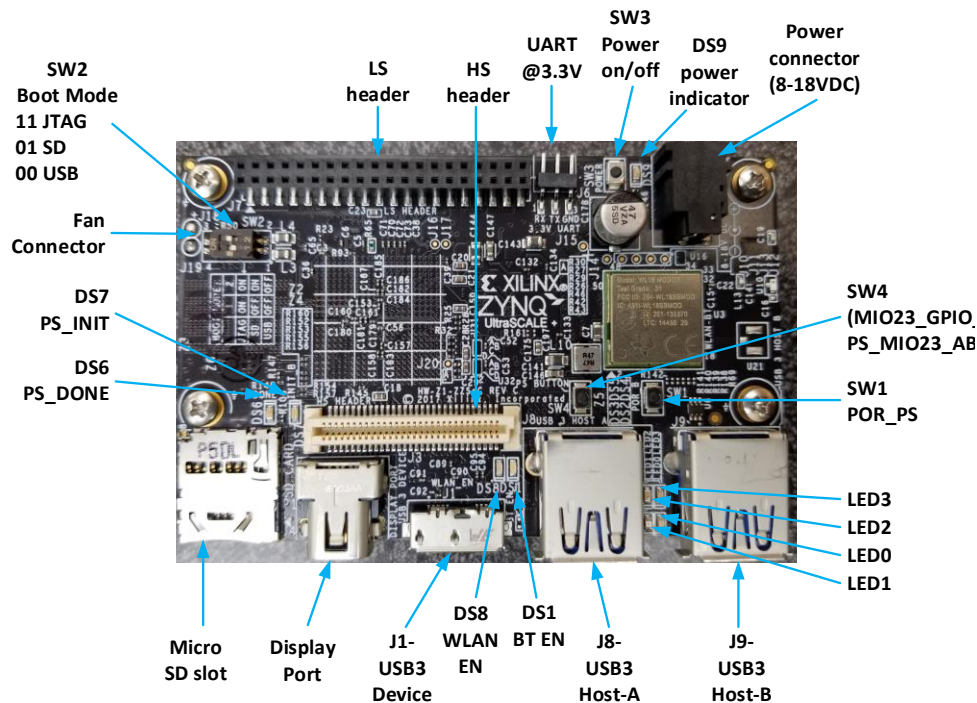# Getting Started with Ultra96

IMPORTANT NOTE

The Ultra96 board is based on a board developed within Xilinx that was called both ZCU100 and ZZSOC. You are getting one of those boards as Ultra96 is still ramping to production. They are the same board.
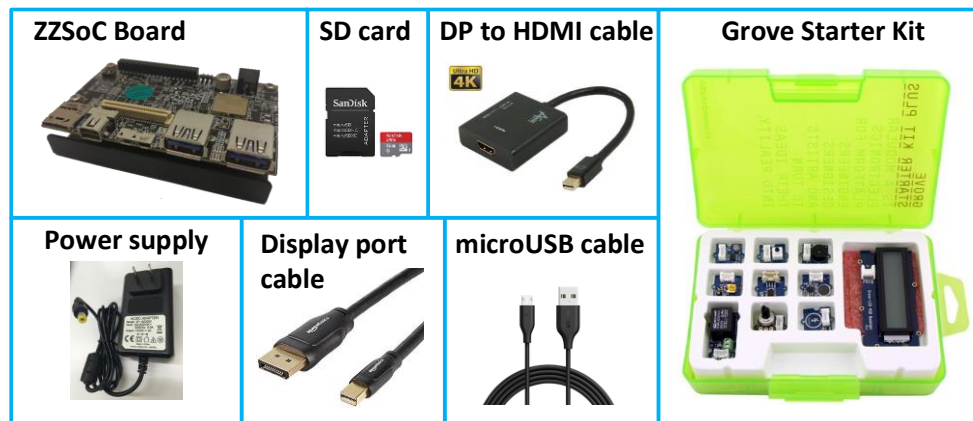

WARNING!

**Always use the Power button to power on & off the board.
Do not remove the power cable or unplug the power supply while the board is running. Failure to do so can cause damage to the board.**

WARNING!

Always unplug the power cable before installing or removing mezzanine cards. Failure to do so can cause damage to the board.

Kit contents:

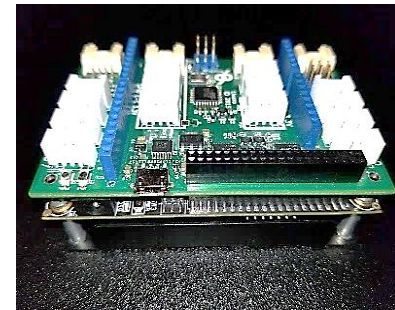

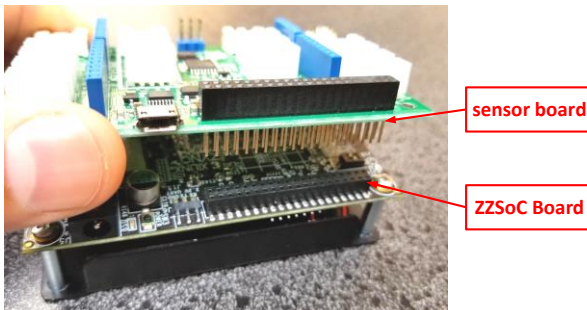## Getting started Instructions:

1. Ensure that the power supply is unplugged from the ZZSoC board

2. Make sure that the ZZSoC board is set to SD boot mode as shown below by setting SW2
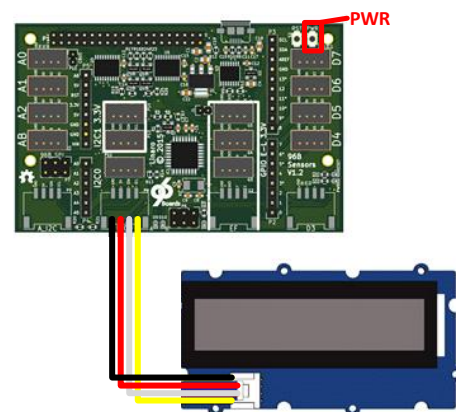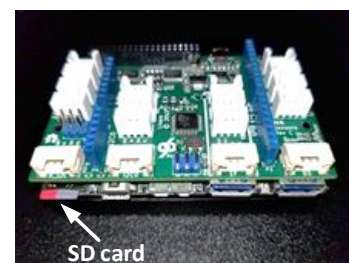
 [1=OFF, 2=ON]

3. Plug the sensor board from the "Grove Starter Kit" on to the ZZSoC board as shown below, plug the sensor board header pins into the ZZSoC LS header carefully so it does not damage the connector (both rows must line-up) → bent pins could damage the board

sensor board

ZZSoC Board

4. Connect the LCD screen from the "Grove Kit" to the I2C0 connectors on the sensor board via the cable provided as shown here:

PWR

5. Plug the provided micro-SD card in the SD card slot of the ZZSoC board as shown here:

SD card

6. Plug the power supply into the wall socket and to the ZZSoC board power connector
7. Press the small "**PWR**" button on the sensor board (see instruction #4 to find **PWR** button)
8. After a few seconds the board will start and the LCD will show the following data:
    a. The first line shows the WiFi **Access Point** & the second line shows the **ip-address** of ZZSoC
9. Connect to WiFi **Access Point** network (no passphrase required) from your phone, tablet, or laptop
10. After connecting to the the **access point**, open up a web browser on your phone, tablet or laptop and type the IP address from above: http://<ip-address> for example http://192.168.2.1
    a. Browse and click the "Hello World" project on your browser and then click "Run Project"
    b. Verify that the LCD displays "Xilinx", "ZZSoC", and "board!" in red, green, and blue respectively