Zynq UltraScale+ RFSoC ZCU216 Evaluation Kit Board user interface quick set up guide

1. Introduction

Equipped with the industry's only single-chip adaptable radio device, the Zynq™ UltraScale+™ RFSoC ZCU216 evaluation kit, is the ideal platform for both rapid prototyping and high-performance RF application development

2. Software Requirements

- Windows 11 English version
- https://www.xilinx.com/products/boards-and-kits/zcu216.html (rdf0549-zcu216-bit-c-2020-1.zip)
- Vivado 2020.1 Lab

3. Equipment Requirements

Machine

- Win 11 Laptop

Power supply

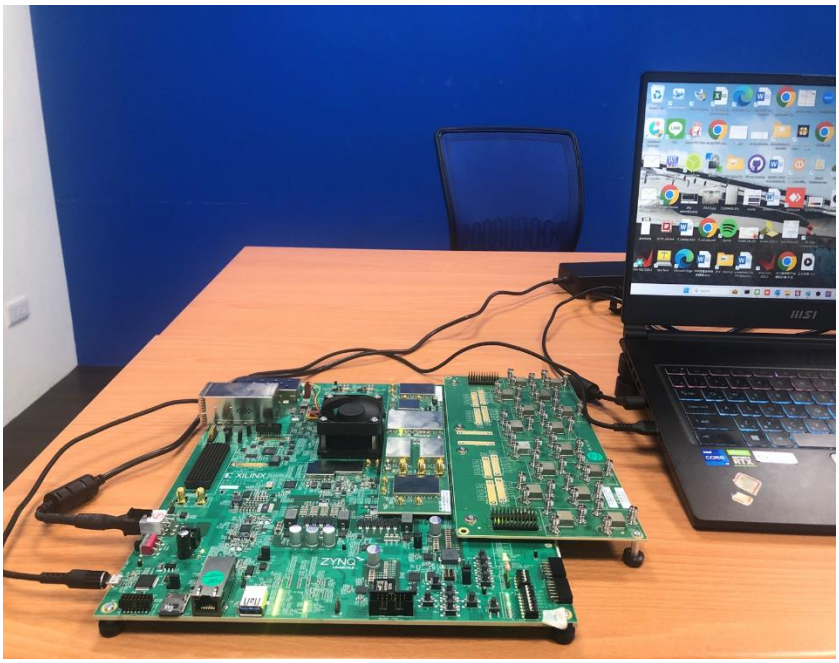
- 180W(12V) Power Supply
- XM655 16T16R Breakout Add-On Card
- CLK104 RF Clock Add-On Card (refer to https://www.xilinx.com/publications/product-briefs/xilinx-zcu216-product-brief.pdf)

Cable

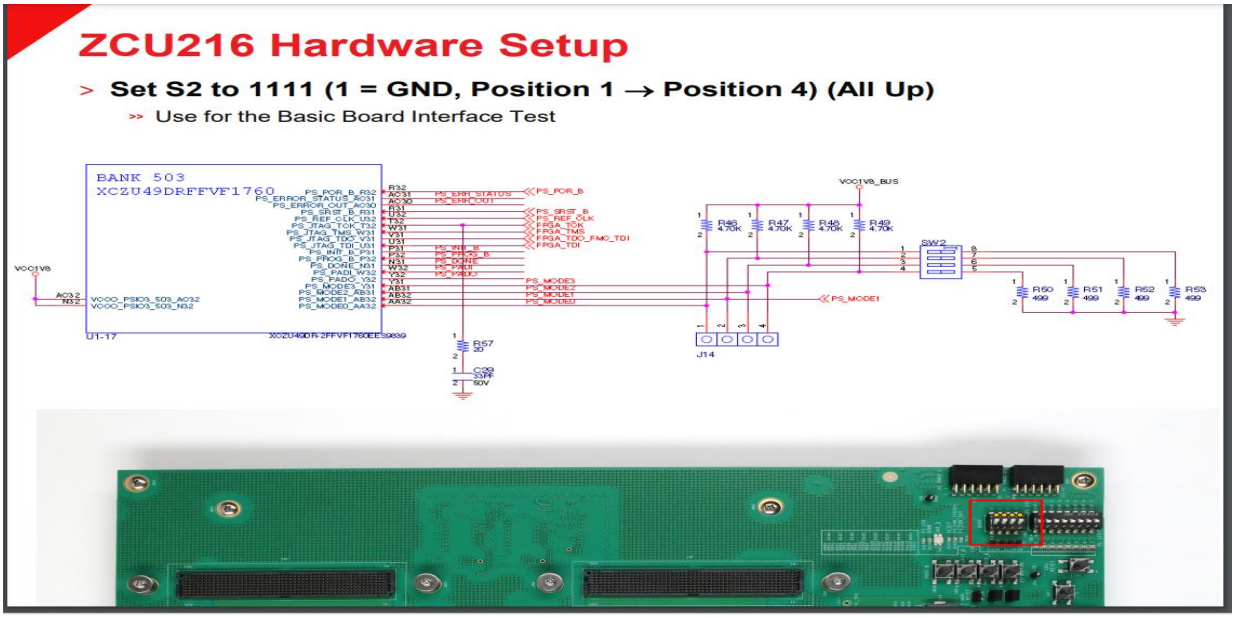
- Micro USB Cable

4. Quick start guide

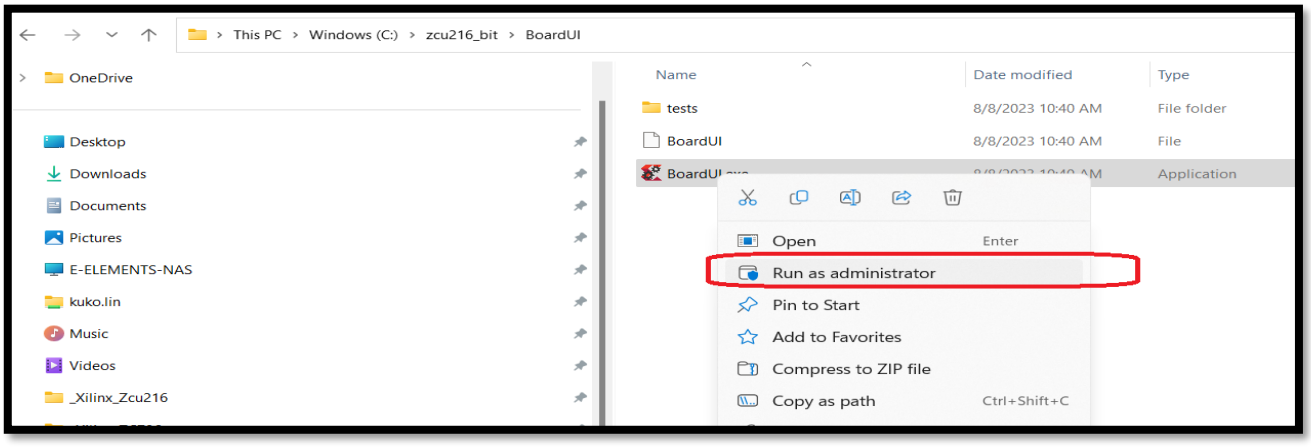
a. Setup as below



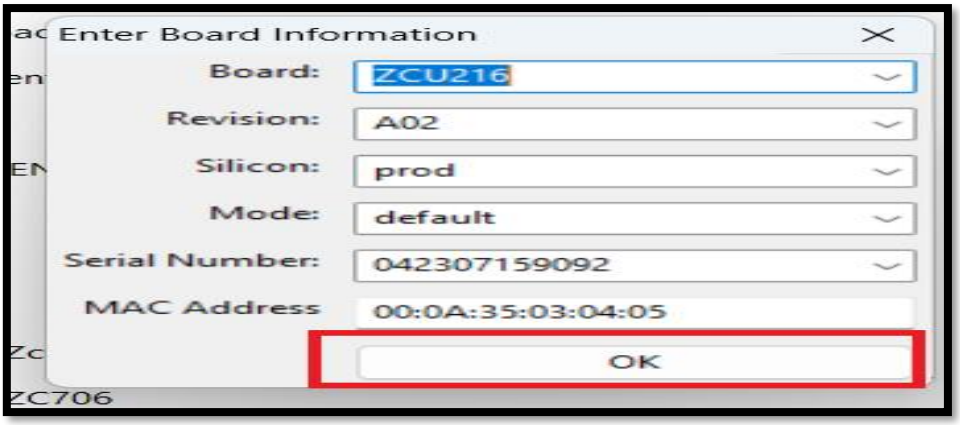
b. Set S2 as below and take SW15 from off to on (DC12V input to ZCU216 board)



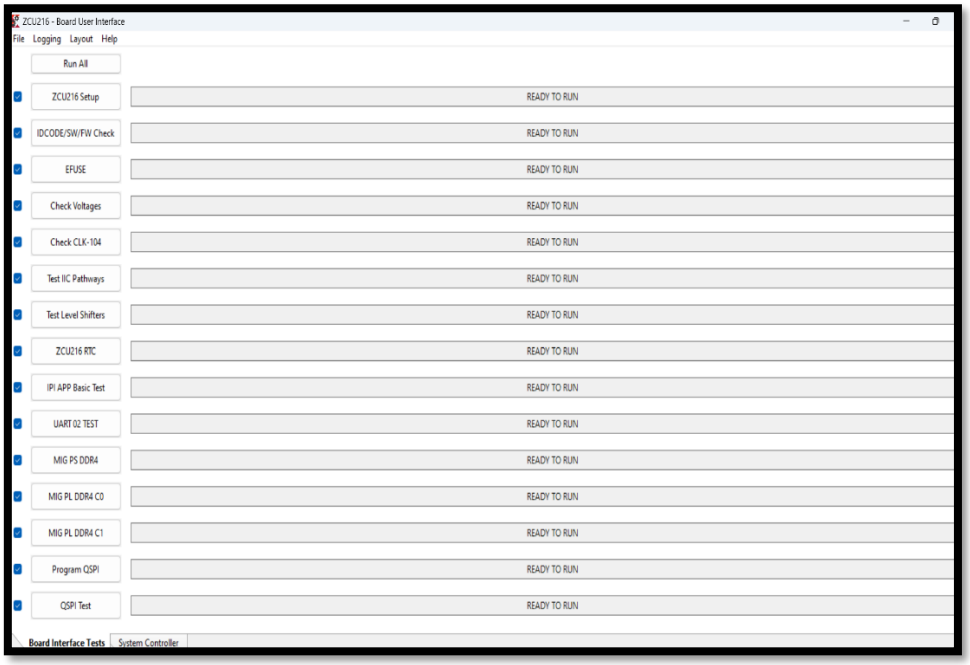
c. Open the RDF0549 – ZCU216 Board Interface Test Files (2020.1 C) ZIP file Extract these files to your C:\ drive (ZCU216 BITS file download from https://www.xilinx.com/products/boards-and-kits/zcu216.html)



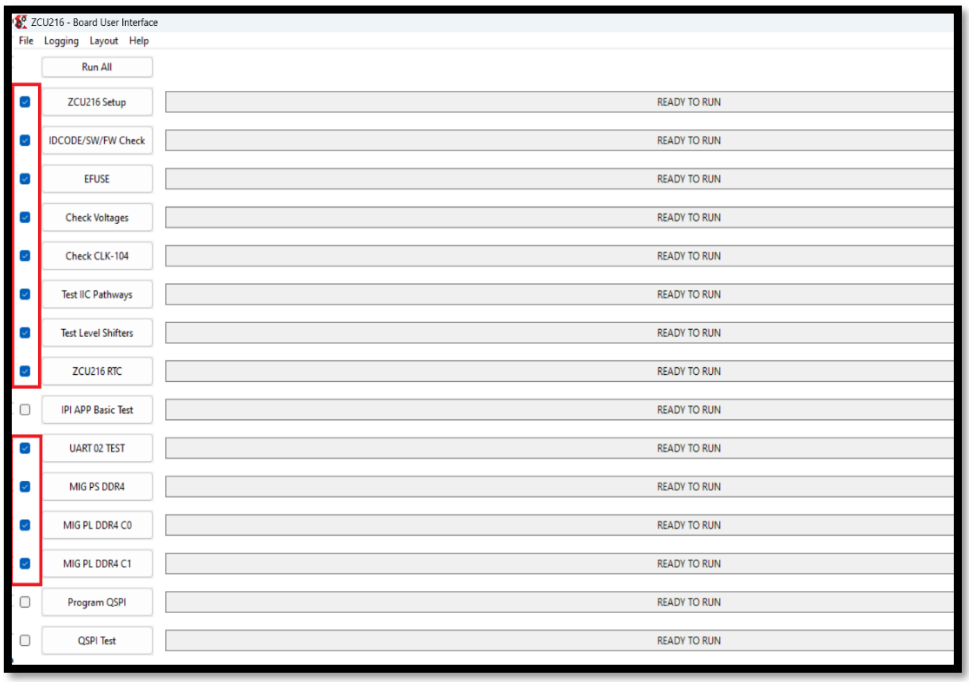
d. Appear below and press OK



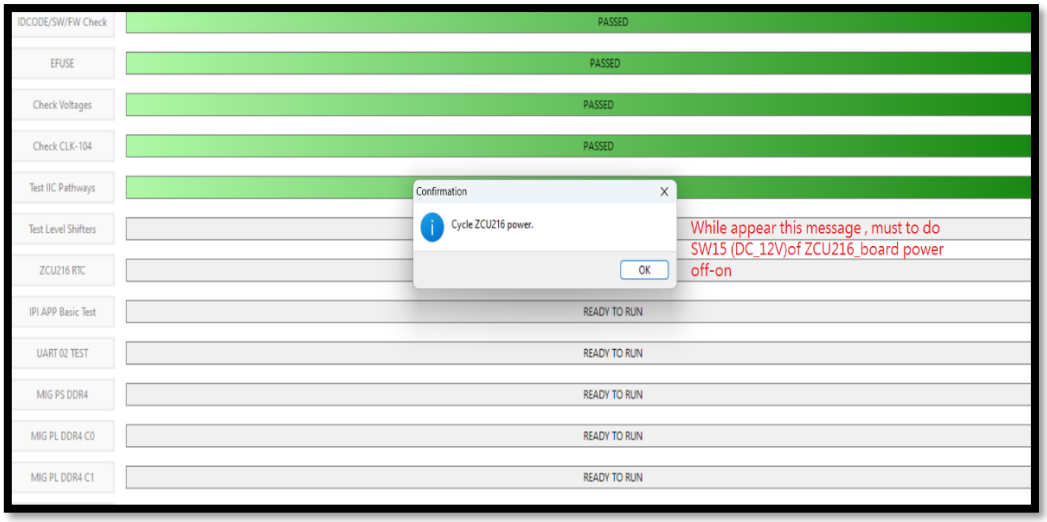
e. Appear Board User interface main GUI



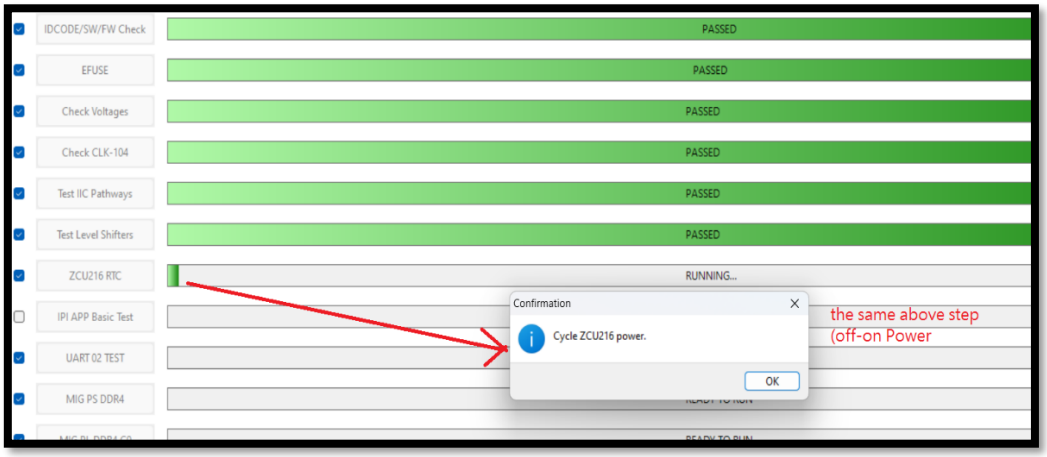
f. To Select test function as below



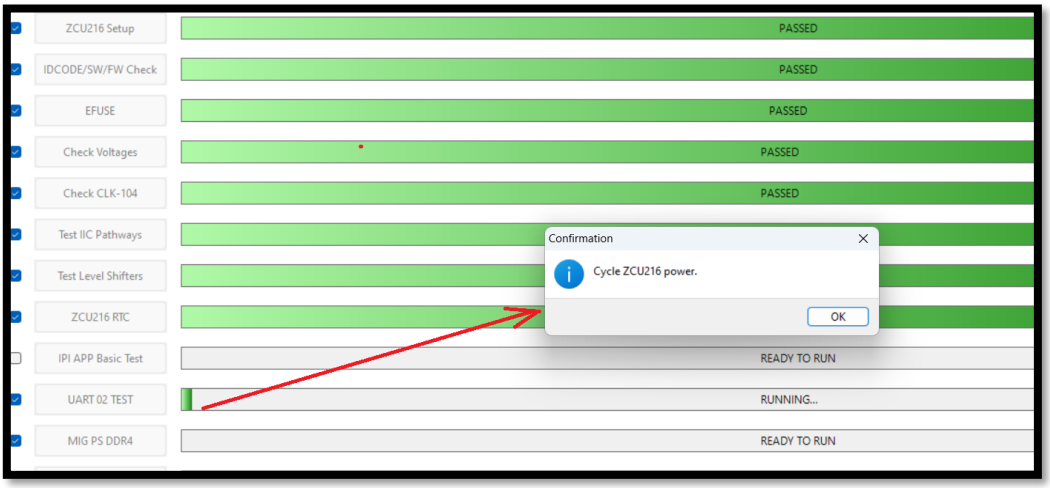
h. appear “ Cycle ZCU216 “ ,please see the below in red



i. appear “ Cycle ZCU216 “ ,please see the below in red



j. appear “ Cycle ZCU216 “ ,please see the below in red



you can see all pass