IPTC SAS – HARDWARE GUIDE

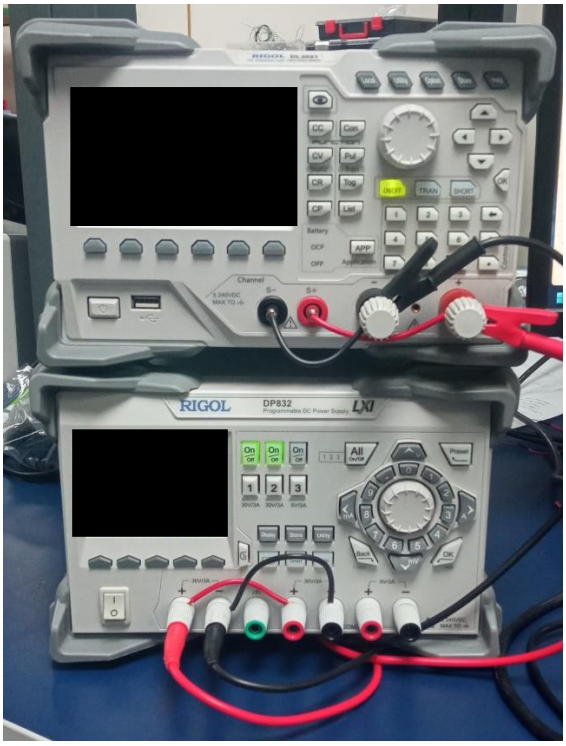
This is a general guide on how to setup the hardware in order to use the developed SAS platforms.

Platform #1

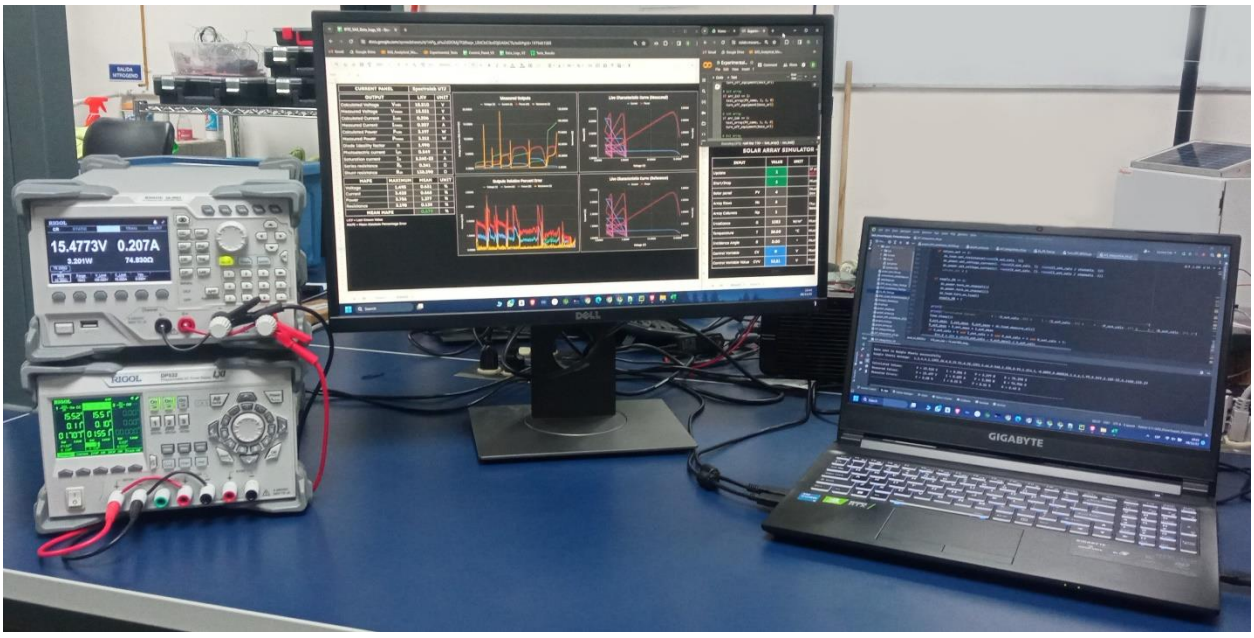
1. Connect the outputs of the RIGOL DP832 programmable power supply in parallel, as shown in the photo below.

2. Connect S+ and S- to the DL3021 programmable electronic load to its input connector for more precise measurements, as shown in the photo below.

3. Connect the outputs of the power source to the inputs of the electronic load.

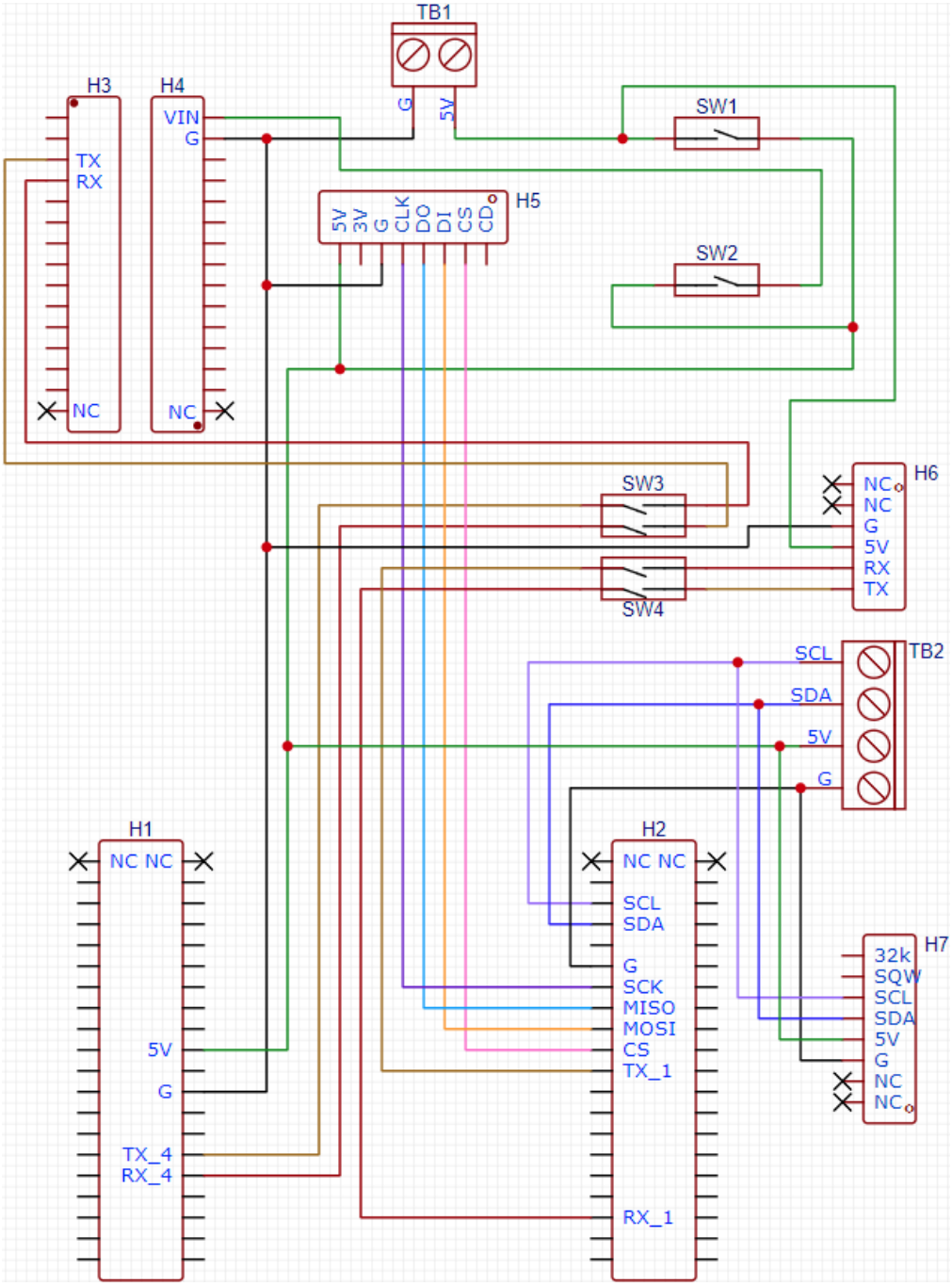


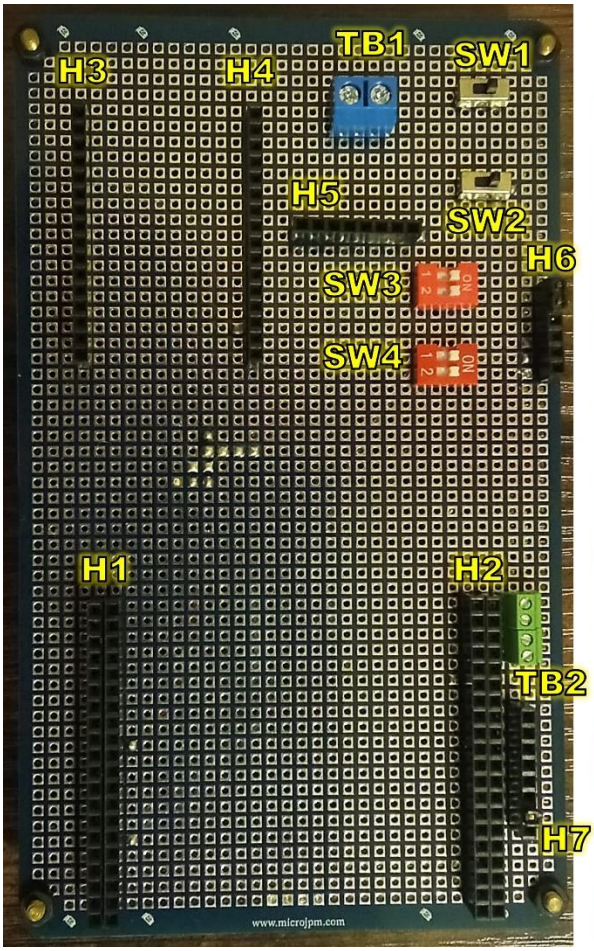
4. Find two USB Type-B to USB Type-A cables. Connect a Type-B connector in its respective port in the back of each instrument, and the Type-A in the computer you will use to run tests.
5. Plug both instruments to an AC outlet. Turn them on.
6. Run the developed software for the SAS platform #1 and run the desired tests.



Platform #2

1. Verify that the connections in the development board are correct, according to the following diagrams. Remember to insert a functional MicroSD card in its reader module. Verify that the switches allow the communication flow and power distribution.




TB1
SW1
H3
H4
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SW2
H6
SW3
SW4
H1
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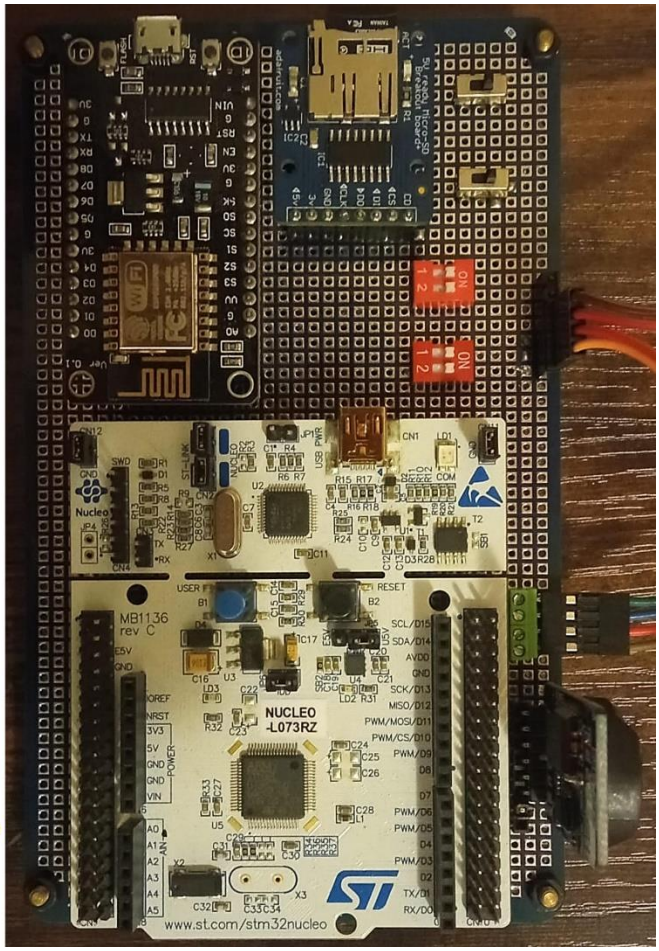
H7
www.microjpm.com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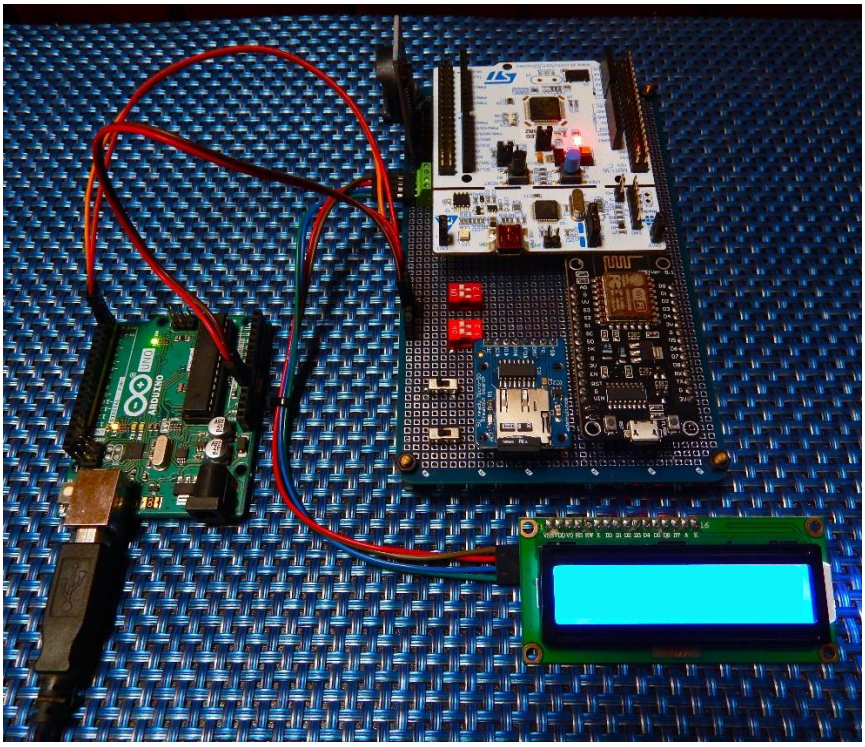

2. Once the connections are verified, plug a 5 VDC power supply to the Nucleo-64 or Arduino UNO.
3. Run the desired tests.