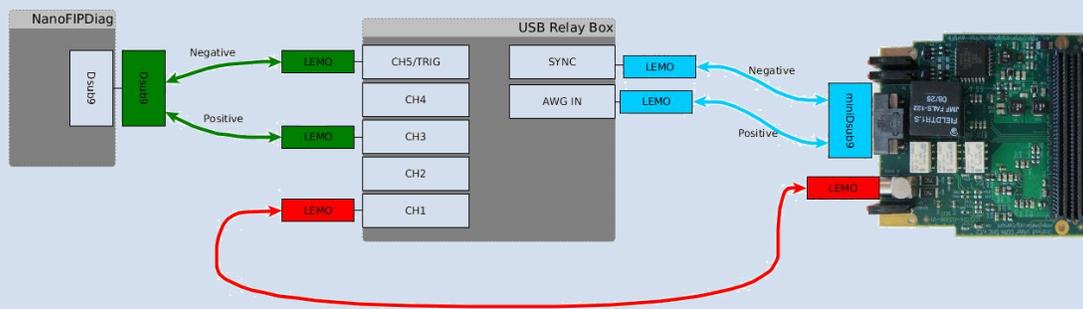


Combined SPEC + masterFIP Production Test Suite

Test Procedure

- 1 Place the **ESD strap** on your wrist.
- 2 Put the **barcode sticker** on the **Top** side of the FMC masterFIP under test.
- 3 **Mount** the FMC masterFIP on a **tested SPEC carrier** and screw the 4 provided screws.
- 4 With the computer **OFF**, connect the SPEC-masterFIP to the **PCIe extender**.
- 4 **Connect** the FMC masterFIP with the USB relay box and the nanoFIPdiag using the provided cables as indicated in the figure below.



- 5 **Switch ON** the computer and verify that the “Pwr” LED on the SPEC board is ON.
- 6 After the computer has finished with the booting procedure, **start the test** by double clicking the “**PTSmasterFIP**” icon on the desktop.
- 7 A new terminal window will appear. When asked for **sudo** password type “**baraka**” and confirm with the [ENTER] button.
- 8 When prompted, use the barcode reader to scan firstly the **masterFIP barcode** (press [ENTER]) then the **SPEC barcode** (press [ENTER] again).
- 9 In test00 verify the FMC masterFIP **speed version** and resistor mounting.
- 10 In test01 verify the front panel **LEDs operation**.
- 11 The rest of the tests 02-05 do not require any input from the operator. After the test05, the summary of the results is presented.
- 12 When **prompted** to repeat the test:
In case of no errors: type [n] and then [ENTER] to quit the test program.
In case of errors : type [y] and then [ENTER] to repeat the tests once.
- 13 When prompted to **switch OFF** the computer, type [y] and then [ENTER].
- 14 **Unplug** the SPEC-masterFIP from the PCIe extender.
- 15 Store the combined SPEC-masterFIP in an **ESD box**.
Place **both SPEC and masterFIP barcodes** on the box.

Note: When testing a FMC masterFIP, DISCONNECT from the SPEC board all the SPEC PTS specific cables (i.e. SATA-SATA, SATA-SFP, USB).