

DAC-DDS PTS Testing Procedure

1) Place the ESD strap on your wrist.

2) Put the barcode sticker on the Bottom side of the DAC-DDS under test.

3) Mount the DAC-DDS-under-test on the SPEC board.

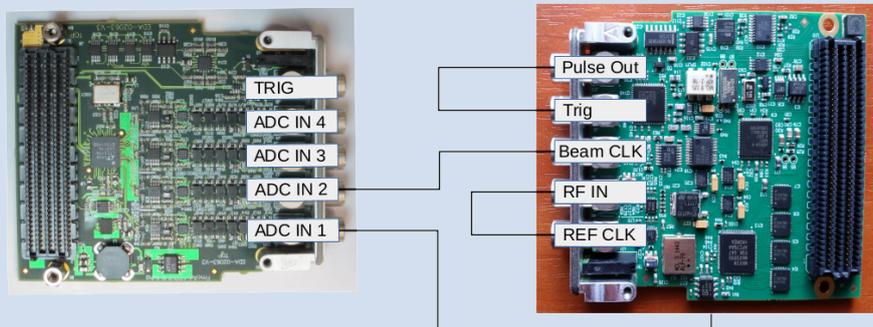
1) Connect DAC-DDS with SPEC-ADC using LEMO cables as indicated on block diagram.

○ Connect the REF CLK port of the DAC-DDS with the RF IN port of the DAC-DDS (Loopback),

○ Connect the Trig. port of the DAC-DDS with the Pulse Out port of the DAC-DDS (Loopback),

○ Connect the Beam CLK of the DAC-DDS with ADC IN 2 of the SPEC-ADC

○ Using the uFL-LEMO00 cable connect the WR CLK OUT with ADC IN 1 of the SPEC-ADC



4) Switch ON the Computer.

Verify that the “Pwr” LED on the SPEC board is **ON**.

5) A terminal will appear automatically in the middle of the screen.

When prompted, type the password: “**baraka**” and then [ENTER].

6) When prompted, use the barcode reader to scan the board’s barcodes.

7) In **test 00** when prompted confirm that the LEDs on SPEC front panel are ON then OFF

8) In **test 01** and **test04** when prompted confirm that the LEDs on DDS front panel are ON then OFF

9) The testing finishes and the results are presented.

10) When prompted to **repeat the testing**:

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.

11) When prompted to switch OFF the computer, type [y] and then [ENTER].

12) You may now unplug the board.

➡ If you need to repeat the tests more than two times for one board, please report to the CERN responsible

➡ Log files are automatically stored at the location: **log_fmcdac600m12b1chadds**