

FmcAdc100M14b4cha test procedure summary

rev. 0.1

Always wear an anti-static wrist band when doing this procedure

1	Place the bar-code sticker on the FmcAdc100M14b4cha board under test. The sticker should be placed with the bar-code next to the edge.
2	Place the FmcAdc100M14b4cha board under test on the FMC connector of the SPEC board. Fix the FmcAdc100M14b4cha board to the SPEC board using the provided screws.
3	Plug the SPEC board in the corresponding connector of the PCI Extender.
4	Connect the cable labelled "TRIG" to the "TRIG" input of the FmcAdc100M14b4cha board.
5	Connect the four other LEMO 00 cables to "CH1", "CH2", "CH3" and "CH4" inputs of the FmcAdc100M14b4cha board. Note that the order doesn't matter.
6	Make sure the AWG is switched ON.
7	Switch on the computer and verify that the "Pwr" LED on the SPEC board is ON. This will confirm that the board is properly plugged.
9	<p>After the computer has finished with the booting procedure, a terminal running the testing program appears automatically in the middle of the screen.</p> <p>If that is not the case, follow these instructions:</p> <ul style="list-style-type: none">• Double click on the black icon present in the middle of the screen, or in the upper panel.• At the top of terminal's windows, you should see: user@baraka:~\$ After the \$ type the following: ./pts/fmcadc100m14b4cha.sh Then type [ENTER]
10	Type the password, if needed. Password: baraka
11	The program asks for the serial number of the board. Use the bar-code reader to read the code on the sticker. If needed, type the second serial number.
12	The software will automatically start executing tests 0 to 09. Test 03 require the user's intervention and will ask the user to visually check the LEDs.
13	Wait for the tests to finish and finally check the results.
14	Switch off the machine. Click on the power button placed in the upper right corner of the desktop and select Shut Down .

Once the testing has finished all the errors that may have appeared will be listed on the screen. The log files will be saved in **/home/user/pts/log_fmcadc100m14b4cha**

Log files with detailed descriptions of the tests will have been automatically generated and archived in a .zip file called:

zip_run_<run id>_<timestamp>_FmcAdc100M14b4cha_<serial number>.zip

In case of error, you can repeat the tests one time more for the same board. If you need to repeat them more times, please report to the responsible of tests at CERN.