

FmcAdc100M14b4cha test procedure summary

Rev. 1.3

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

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| 1 | Place the bar-code sticker on the FMC-ADC board to be tested. The sticker should be placed with the bar-code next to the edge. |
| 2 | Place the FMC-ADC board to be tested on the FMC connector of the SPEC board. |
| 3 | Connect the cable labelled "TRIG" to the "TRIG" input of the FMC-ADC board. |
| 4 | Connect the four other LEMO cables "CH1", "CH2", "CH3" and "CH4" to the corresponding inputs of the FMC-ADC board. |
| 5 | Make sure the AWG is switched ON. |
| 6 | Switch on the computer. |
| 7 | After the computer has finished with the booting procedure, a terminal appears automatically in the middle of the screen. |
| 8 | Type the password: baraka |
| 9 | The program asks for the serial number of the board. Use the bar-code reader to read the code on the sticker, then press [ENTER]. If needed, type the second serial number and press [ENTER]. If the second serial number is not needed, just press [ENTER]. |
| 10 | The software will automatically start executing tests 0 to 09, 22, 19, 23 and 25. |
| 11 | Test 03 require the user's intervention to visually check the LEDs. |
| 12 | Wait for the tests to finish. |
| 13 | At the end of the tests the user will be asked if the tests should be repeated. 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. |
| 14 | To switch the computer OFF, type [y] and then [ENTER]. To exit the test program and keep the computer ON, type [n] and then [ENTER]. |

Once the testing has finished all the errors that may have appeared will be listed on the screen. The log files containing more detailed information on each test 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

If you need to repeat the tests more than two times for the same board, please report to the technical contact at CERN.