

White Rabbit Switch

Production Test Suite

1	Place the ESD strap on your wrist.
2	Put the barcode sticker on the rear side of the WRS/DUT
3	Visually check the WRS/DUT
4	<p>Connect the WRS/DUT with the PC using the provided cables(3*USB, 1*USB-RS232, 1*Ethernet). Connect also the Pendulum Counter and Agilent Generator to the PC and clocking in/outputs to the WRS/DUT. See the figure below.</p> <p>The diagram illustrates the connection setup for the White Rabbit Switch (WRS/DUT) test suite. A PC is connected to the WRS/DUT via three USB cables, one RS232 cable, and one Ethernet cable. The Pendulum CNT-91 is connected to the WRS/DUT via two USB cables (Input A and Input B) and two clock lines (CLK1 and CLK2). The Agilent 33250A is connected to the WRS/DUT via an RS232 cable (Output) and a 10MHz clock line. The WRS/DUT has various test points on its back, including PPS out/in, ARM test, FPGA test, and RS232. A Future device is also connected to the WRS/DUT via a USB cable and an RS232 cable.</p>
5	Switch ON the computer and WRS/DUT and verify that the “Power” LED on the White Rabbit Switch is ON/GREEN.
6	After the computer has finished with the booting procedure start the testing typing <code>cd ~/pts</code> and <code>./wrs.sh</code> OR <code>wrs-non_destructive.sh</code> OR <code>wrs-select.sh</code>
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 the board’s barcodes .
9	In test00 put the WRS/DUT in bootloader mode
10	In test02 (in sequence test00) enter the WRS/DUT data and the manufacturer name
11	In test05 verify the functioning of the fans (backside)
12	In test06 verify the leds (front)
13	In test07 push and hold the general button (backside)
14	In test08 put the SFP loopbacks into all the ports
15	The rest of the tests 09-17 do not require any input from the operator. After the test17, the summary of the results is presented.
16	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.
17	Unpower and Unplug the WRS/DUT.