

Test protocol

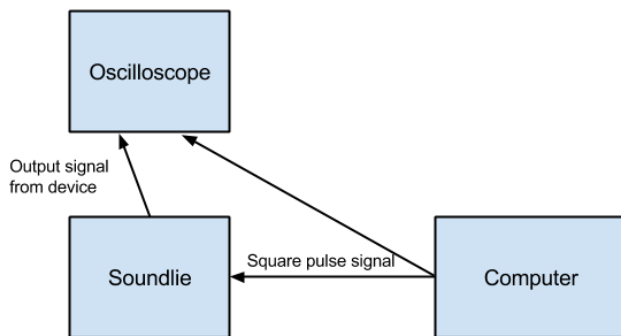
Delay measurements

Description: The delay of the audio throughput is measured by letting a single square pulse signal run through the system. The delay of the output signal compared to the input signal is then measured.

Equipment:

- Nexys 4 board with implemented design and power supplies
- Digital oscilloscope
- Computer

Setup: The computer was configured to play a signal consisting of a single 2 ms long square shaped pulse. This signal was connected to the inputs of the Soundlie and to one of the input of the oscilloscope. The output signal of the Soundlie device was connected to another channel on the oscilloscope.



Results:

The result from the test shows a delay of 0,36 ms on both rising and falling edge. This is well within the required delay of 5 ms.

