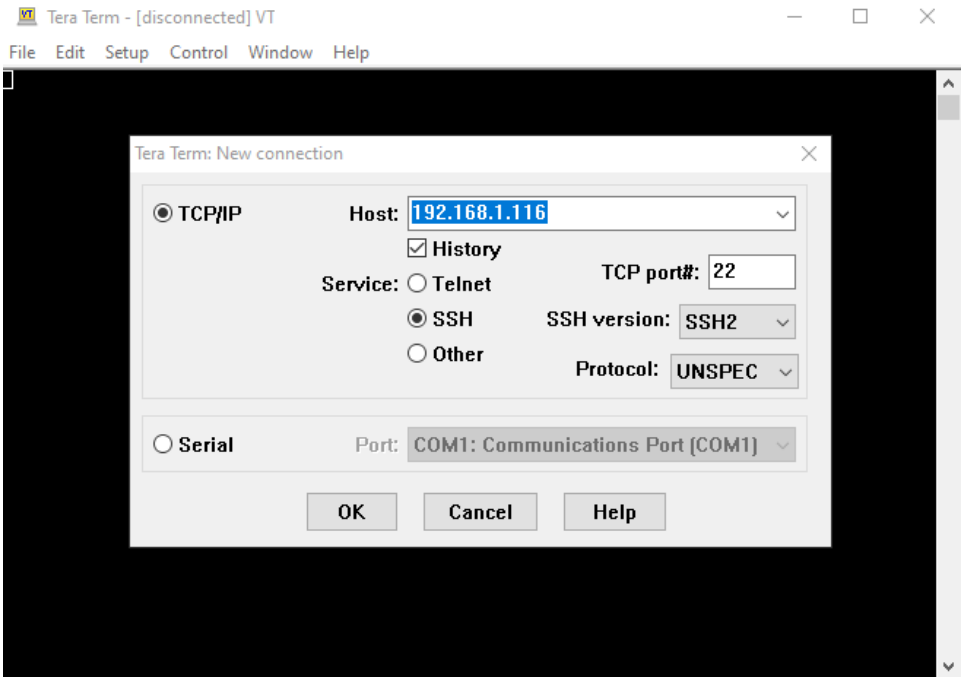
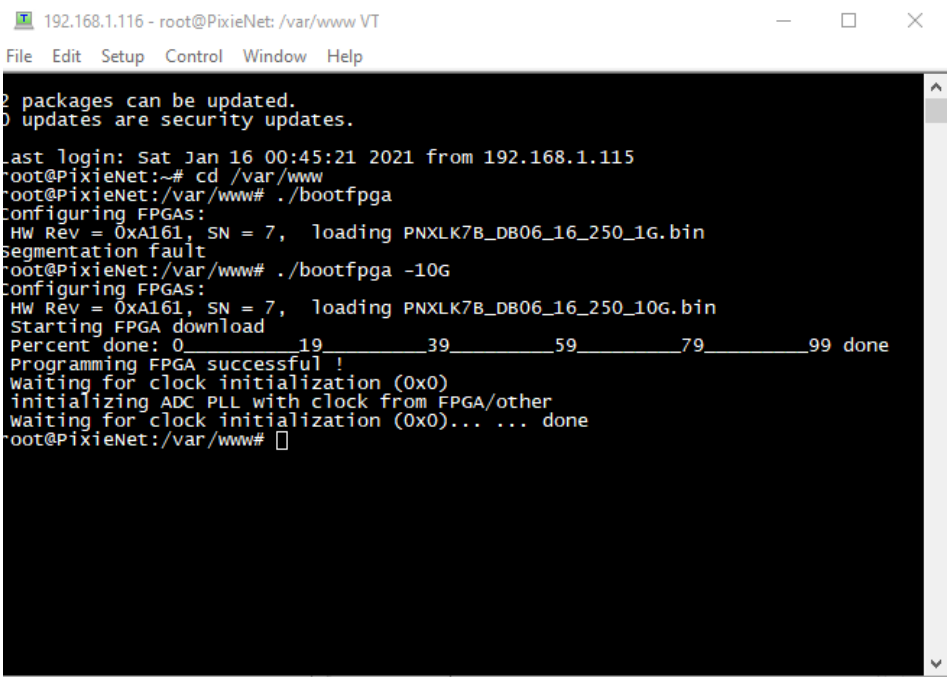
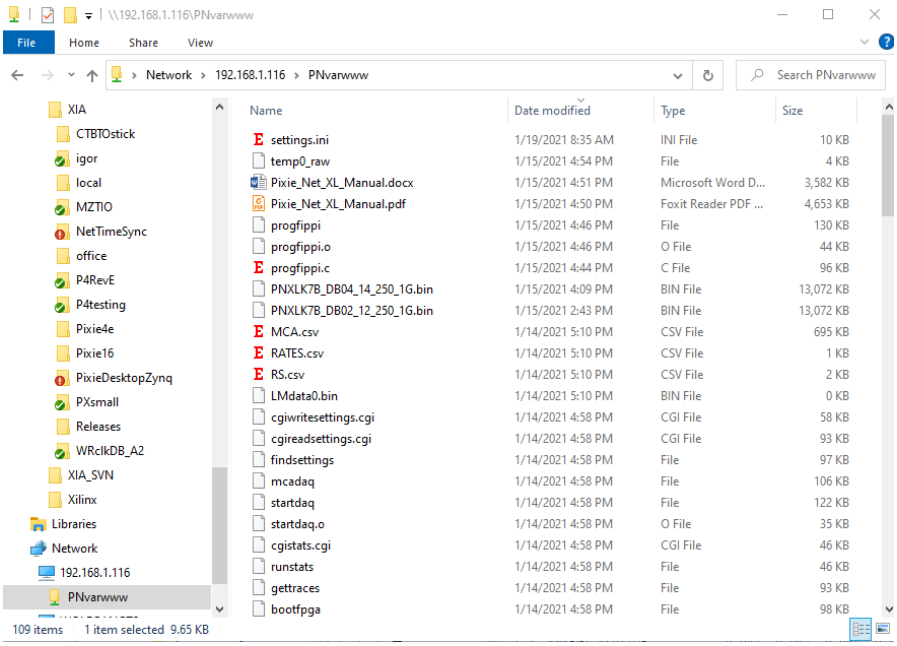
SSH log in to Pixie-Net XL. (If you don't know the IP address, use the USB-UART "serial" option)



Pixie-Net XL runs Ubuntu 18. Go to shared folder and boot FPGAs by typing "bootfpga" (usually automatic at power up and reboot)



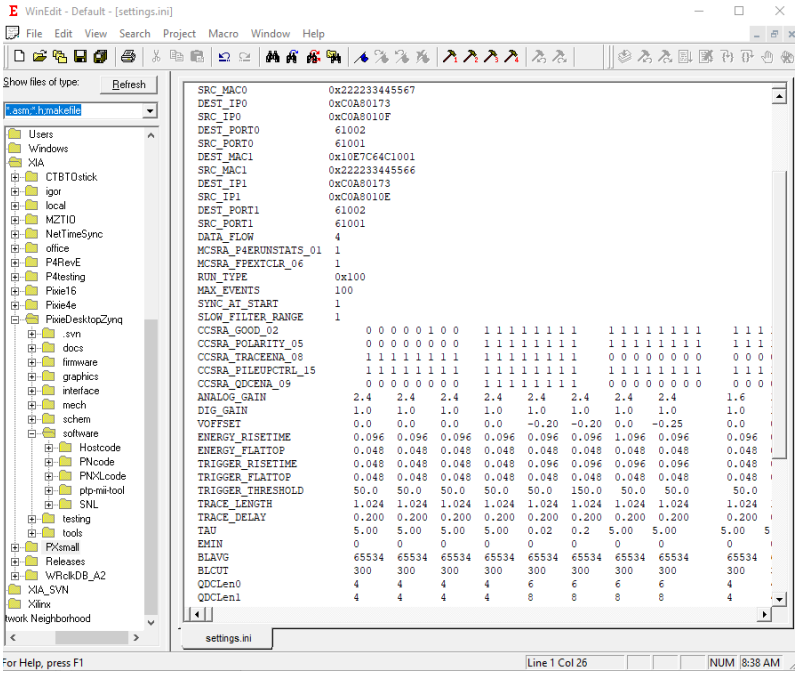
Open Windows Explorer and go to shared folder (Pixie-Net XL IP)



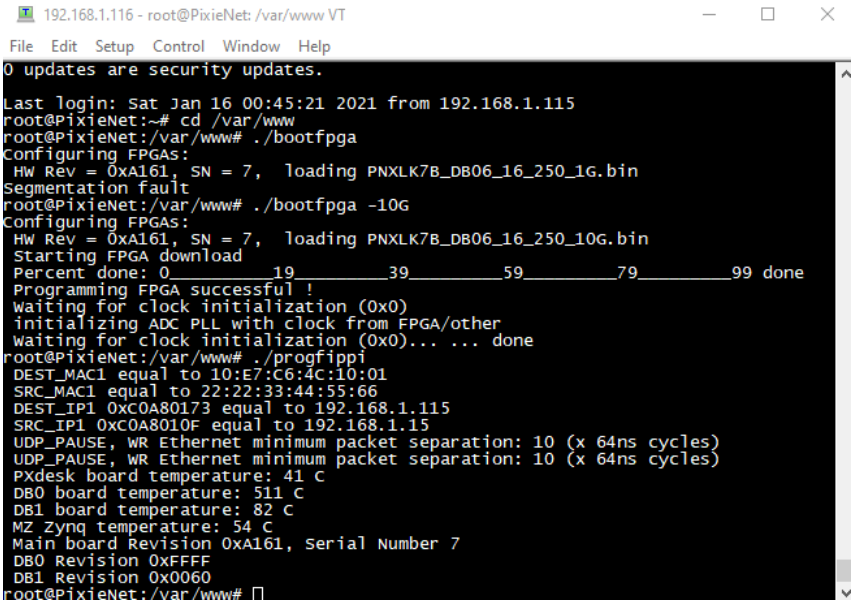
Edit settings.ini, for example analog gain, offset, run type …

Parameters [mostly] match the Pixie-16 in meaning and value range. See manual for details!

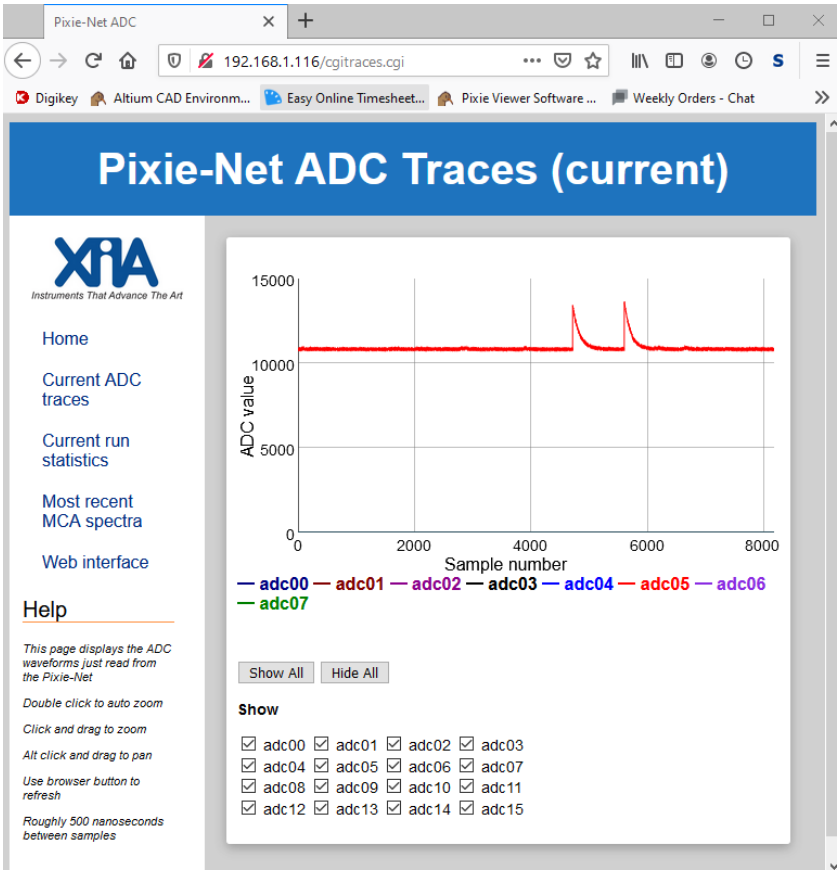
For 10G data streaming, MUST specify correct destination IP and MAC of receiver PC



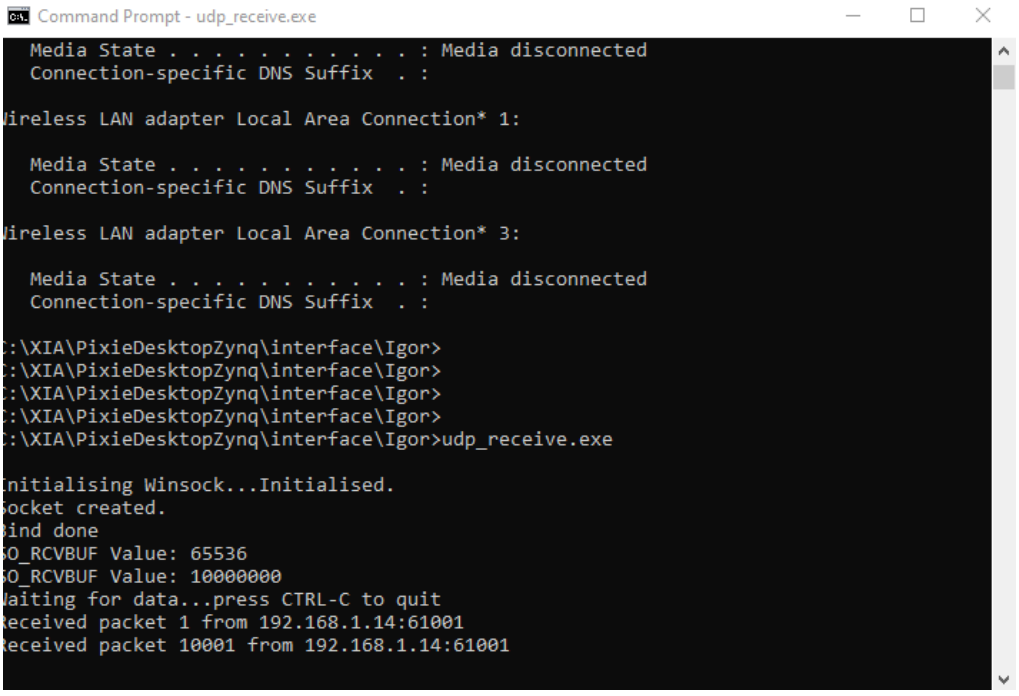
Apply settings from file by running “progfippi” in terminal



Open web browser to Pixie-Net XL’s IP and check detector signal



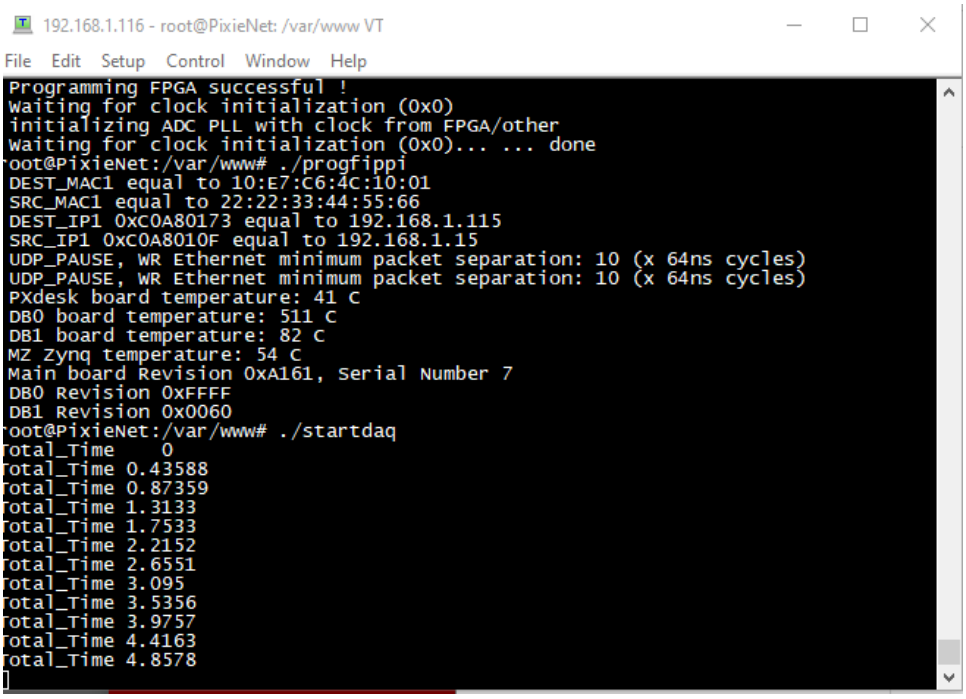
Open cmd window on PC and start the udp receiver program “udp-receive.exe”



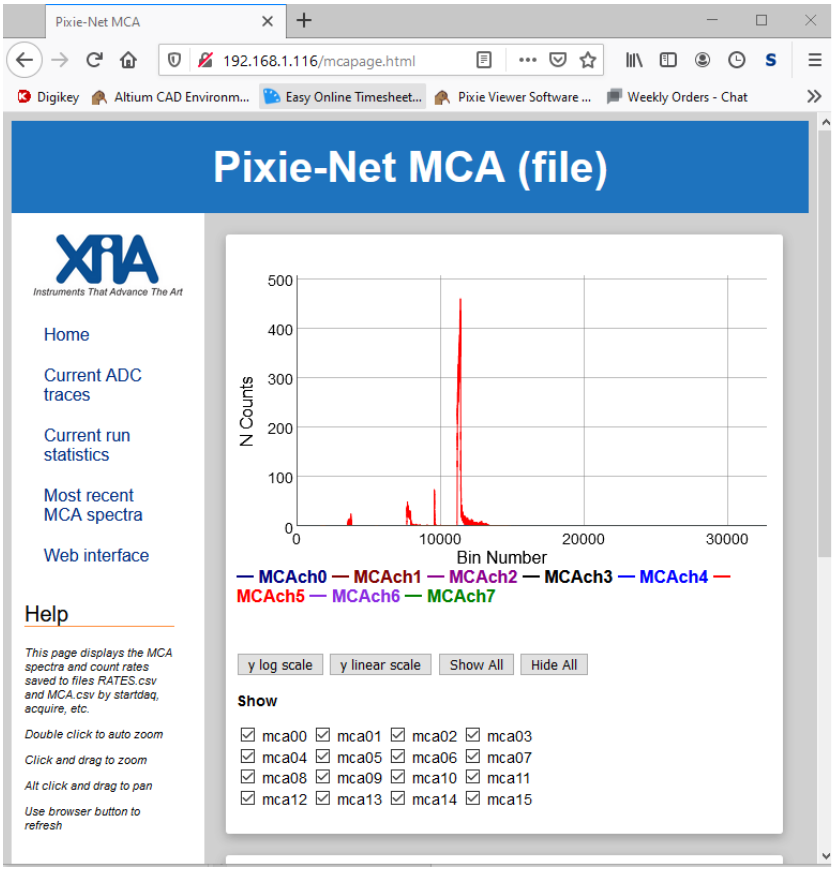
Window may ask for Firewall permission: allow

Start DAQ by typing “startdaq” in terminal …

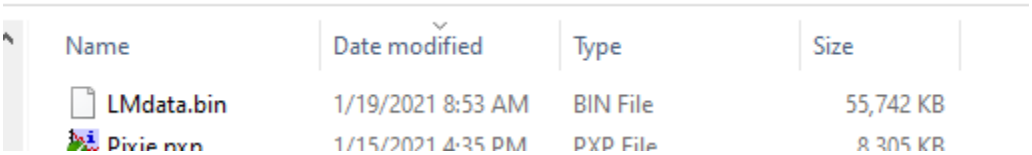
PC will now receive packets and Pixie-Net XL will count the run time



Can see MCA on webpage

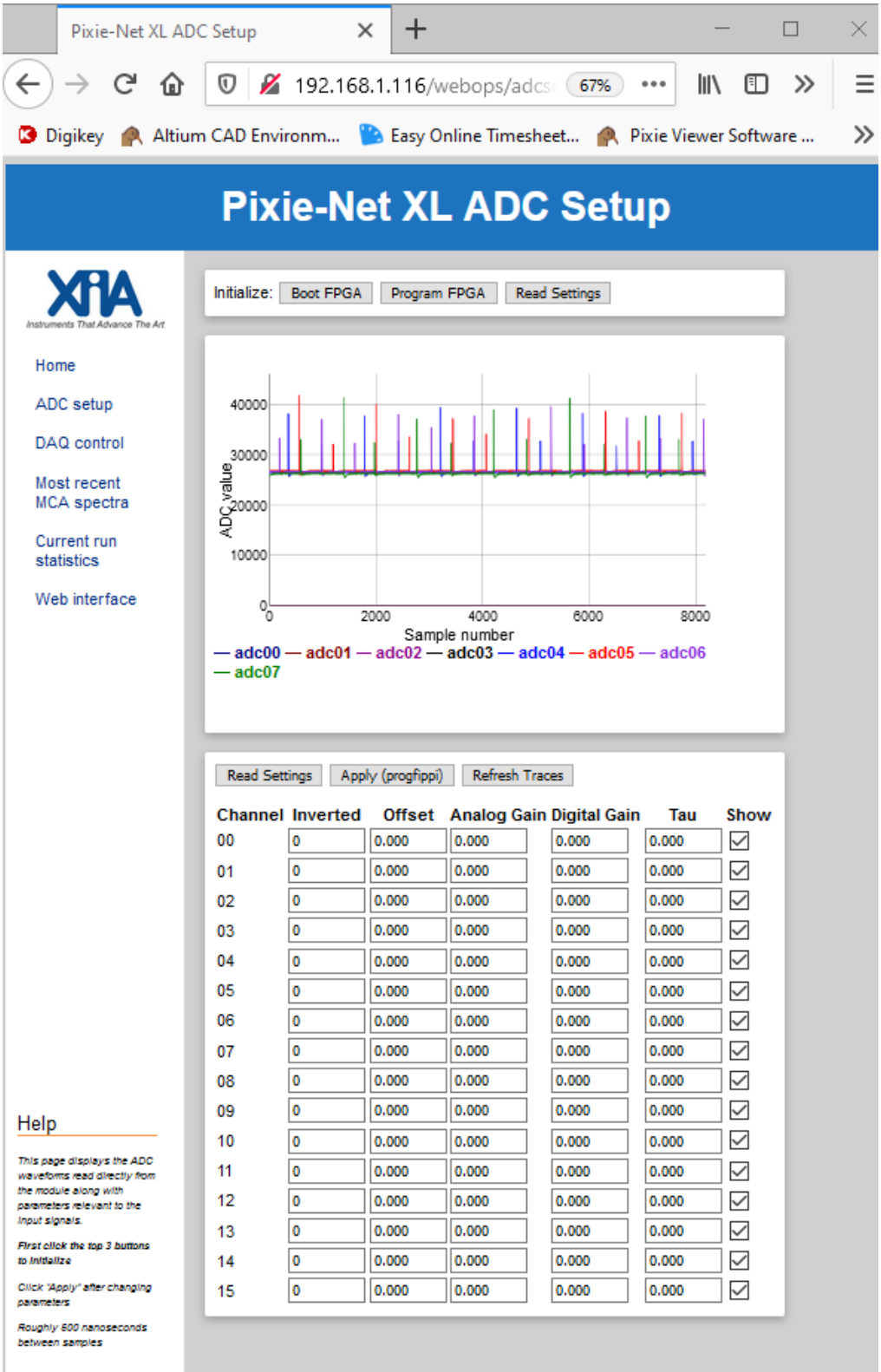


And LM file in Windows Explorer



The UDP receive program exists for Windows and Linux. It's basically copied from a socket programming tutorial, 1-2 pages of code.

If you feel adventurous, you can also try the web interface to set parameters and start runs.



Network setup: The “Receiver PC” can be the same as the “Control PC”. However control is 1G Ethernet, data is 10G Ethernet.