



Connect :

The button spawns two threads , UDP socket thread and Async Plotter.

Redraw :

The button is to replot the graph in case when the user interface is stuck.

Export :

The button is used to invoke the function to collect the samples received and save them in a .csv file. The data can be used to check the plot observed or as a saved analysis.

Voltage scale slider :

The slider can be used to change the voltage per division . By default it is set to the minimum value. The change in scale will send the gain value to the controller and the respective resistor value will be selected. The selection of resistor is taken care by analog switch .

Time scale slider :

The slider can be used to change the time per division on the display. By default the sampling frequency is 512 KHz . The change in scale will send the required sampling frequency by the user and controller will take care of it based on the input received.

Trigger level slider :

On the interface , the trigger slider can be used to trigger the waveform at a particular value. By default the trigger level is 0 V. To implement the trigger we are using 128 different levels to accommodate different 1024 voltage levels. The respective trigger value will be sent to the controller before receiving the data to be plotted.

