2.4.4.4.5. Sampling rate and decimations

Decimations and time scales of a buffer are given in the tables below.

STEMlab 125-14 & STEMlab 125-10:

Decimation	Sampling Rate	Time scale/length of a buffer	Trigger delay in samples	Trigge
1	125 MS/s	131.072 us	from - 8192 to x	-6.55
8	15.6 MS/s	1.049 ms	from - 8192 to x	-5.24
64	1.953 MS/s	8.389 ms	from - 8192 to x	-4.19
1024	122.07 kS/s	134.218 ms	from - 8192 to x	-6.71
8192	15.258 kS/s	1.074 s	from - 8192 to x	-5.36
65536	1.907 kS/s	8.590 s	from - 8192 to x	-4.29

SDRlab 122-16:

Decimation	Sampling Rate	Time scale/length of a buffer	Trigger delay in samples	Trigge
1	122.8 MS/s	133.42 us	from - 8192 to x	-6.67
8	15.35 MS/s	1.067 ms	from - 8192 to x	-5.33
64	1.918 MS/s	8.538 ms	from - 8192 to x	-4.26
1024	119.92 MS/s	136.622 ms	from - 8192 to x	-6.83
8192	14.99 kS/s	1.092 s	from - 8192 to x	-5.46
65536	1.8737 kS/s	8.743 s	from - 8192 to x	-4.37

SIGNALlab 250-12:

Decimation	Sampling Rate	Time scale/length of a buffer	Trigger delay in samples	Trigge
1	250 MS/s	65.536 us	from - 8192 to x	-3.22

8	31.250 MS/s	0.524 ms	from - 8192 to x	-2.62
64	3.906 MS/s	4.194 ms	from - 8192 to x	-2.09
1024	244.14 kS/s	67.108 ms	from - 8192 to x	-3.35
8192	30.517 kS/s	0.536 s	from - 8192 to x	-2.68
65536	3.814 kS/s	4.294 s	from - 8192 to x	-2.14