

Trap

박관형

Wave Generator



Create Waveform

Select

Instrument ✓

Parameter

Points

Amplitude V_{pp}

Mode

Sample Rate Sa/s

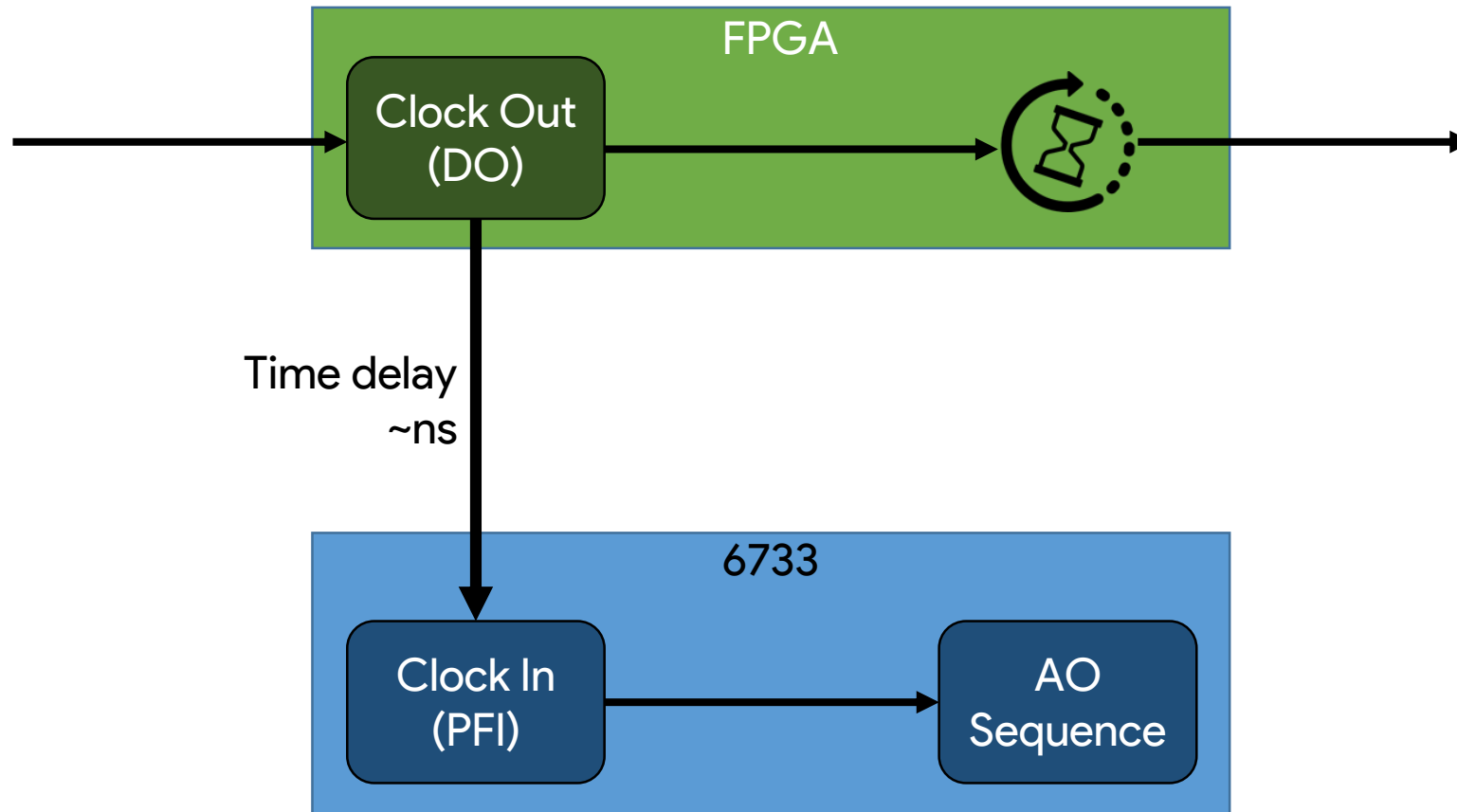
OK Cancel

- Maximum points: 2M
- For Sampling rate 20M Sa/s → 0.2 sec (Not enough)

Wave Generator_Burst

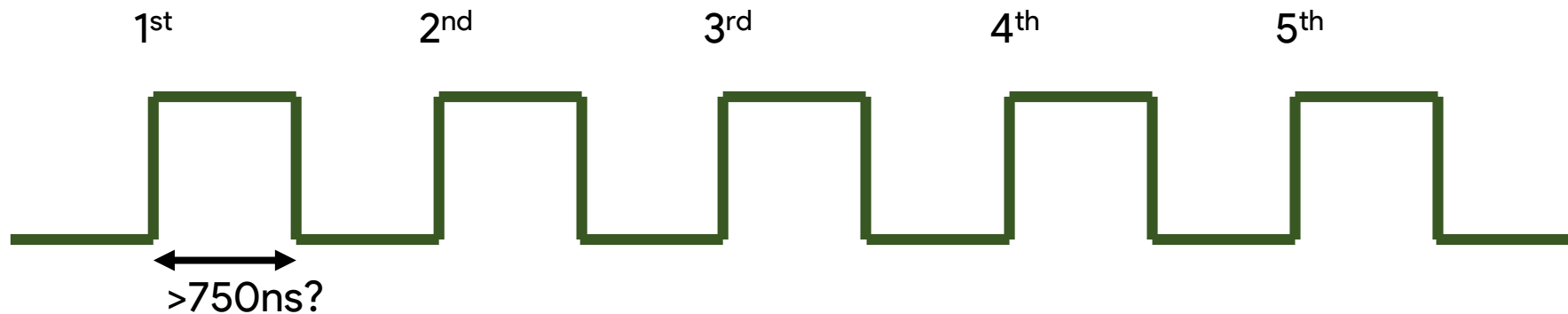
- Set RW frequency 1
- Trigger from FPGA
- Stop
- Set RW frequency 2
- Trigger from FPGA

FPGA – AO Timing



AO-FPGA

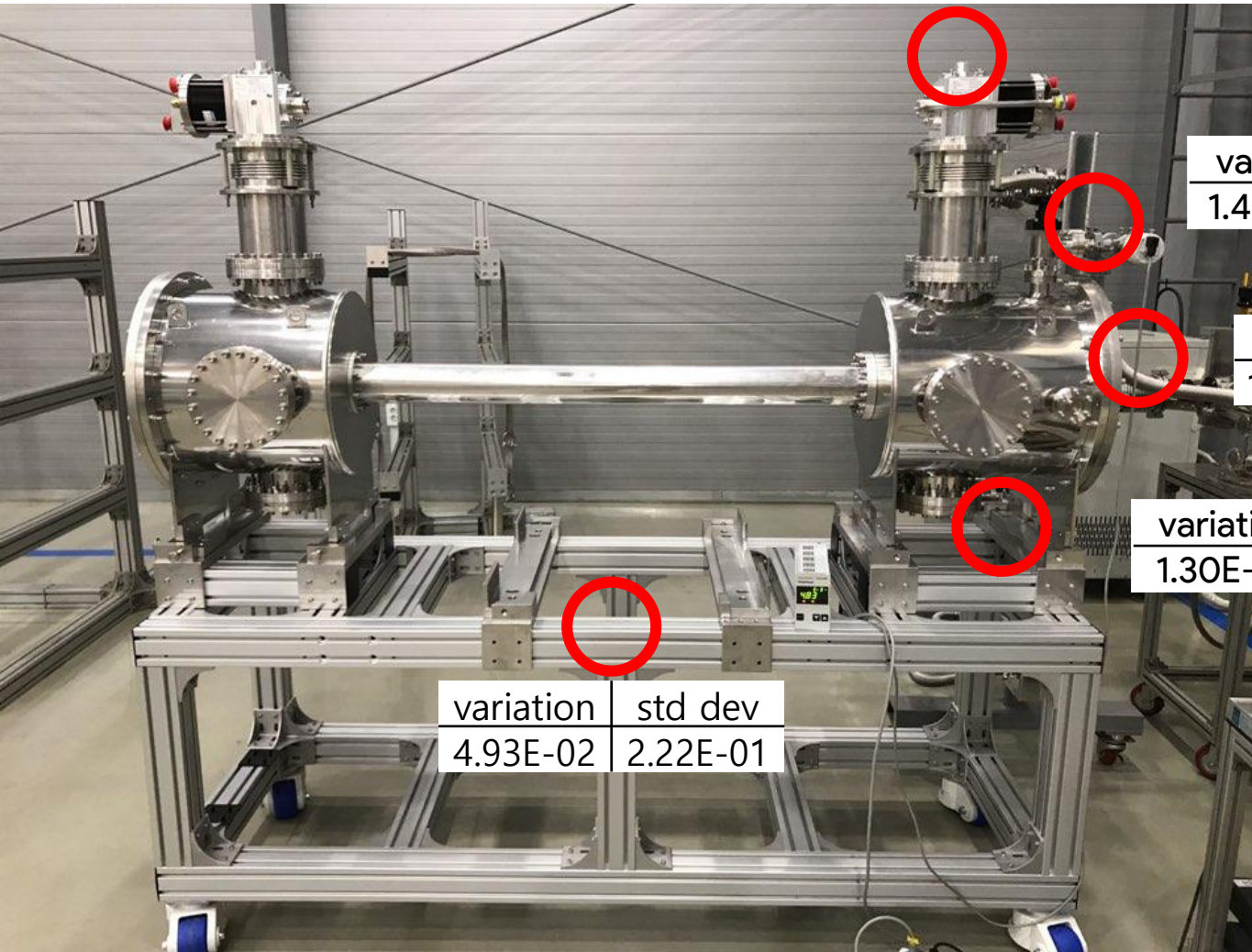
1	1	1	3.3	← 1 st Rising edge
2	2	2	3.3	← 2 nd Rising edge
3	3	3	3.3	← 3 rd Rising edge
0	0	0	0	← 4 th Rising edge
				← 5 th Rising edge



Delay: 5 tick

Vibration

variation	std dev
2.863E-02	1.692E-01



variation	std dev
1.472E-01	3.837E-01

variation	std dev
1.423E-02	1.193E-01

variation	std dev
1.30E-02	1.14E-01

variation	std dev
4.93E-02	2.22E-01