

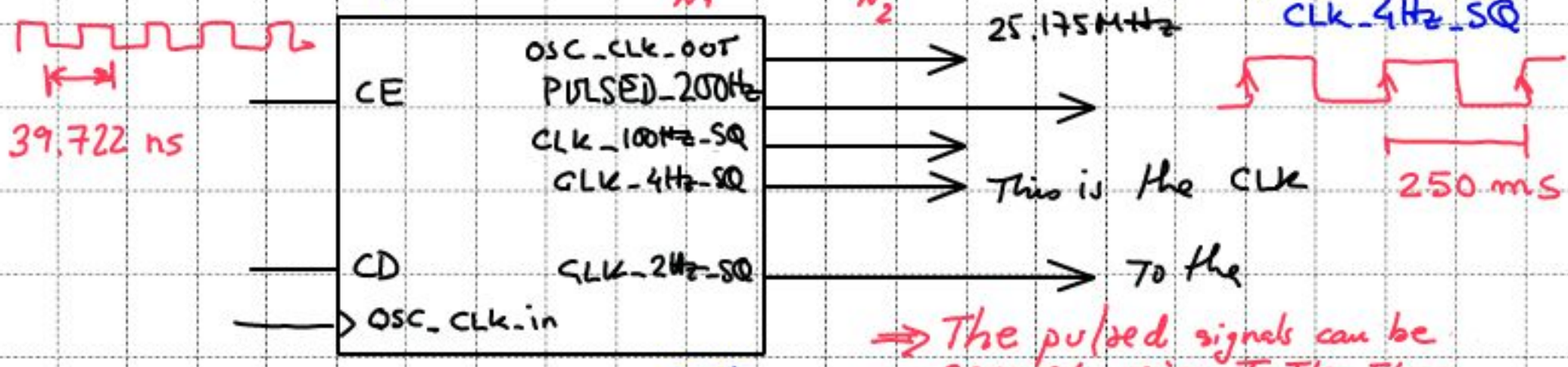
The sketch of the CLK generator

- ① output 4Hz squared to run the traffic light controller
- output 2Hz squared to generate the yellow lights blinking
- Let's add another output: 100Hz squared in case of adding other features like push buttons and sensors debouncing circuits.
- Input CLK: that depends on the oscillator available in the training board.

For instance UP2 (Altera) \rightarrow 25.175 MHz

$$25175000 \text{ pulses} = 125875 \times 25 \times 2 \times 4$$

N_1 N_2 TFF



\Rightarrow The pulsed signals can be squared using T-Flip-Flops

② Plan

