

 $[rwe == 1] \& [fb == 1] \& [C_w == N_f]$ or  $[rwe == 1] \& [fb == 0] \& [C_w == N_f - N_o]/$ [rwe = 0]switch to memory read phase to output the realized frame from SP-RAM

 $[C_r \neq N_f]/[frameValid = 1]$ remain for  $N_f \cdot t_c$  ns to consecutively

read the realized frame samples from

SP-RAM and output them via the

frameSample output