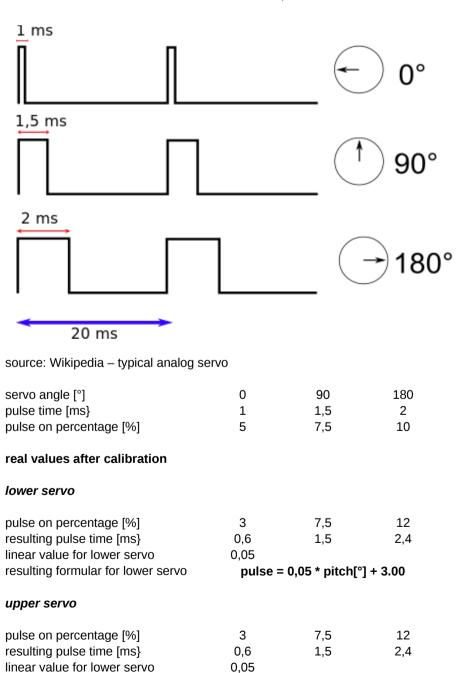
el16b005 - BEL3 - basic values PWM for servos

XMC4500 clock speed [Mhz]	120	according Infineon specification			
PWM frequency demand [Hz]	50	value for typical analog servo			
prescaler 2^n prescaler result	6 64	7 128	8 256	9 512	10 1024
resulting frequency [kHz]	1875	937,5	468,75	234,375	117,1875
counter value for PWM frequency	37500	18750	9375	4687,5	2343,75
counter range [bit]	15,19	14,19	13,19	12,19	11,19

all values lower 16bit – without concenation XMC CCU 16bit chosen prescaler 256 / 2^8 – counter value is still an integer



pulse = 0,05 * roll[°] + 3.00

resulting formular for lower servo