

$$T_{TICK} = T_{CLK} \cdot (TICKTIME[15:0] + 1)$$

$$FRAME_{TIME}[15:0] = T_{TICK}/T_{FRAME}$$

$$SyncCount = 8 \times FRCV \times T_{TICK}$$

$$SYNC_{MIN}[15:0] = 0.8 \times SyncCount$$

$$SYNC_{MAX}[15:0] = 1.2 \times SyncCount$$

$$FRAME_{TIME}[15:0] \geq 122 + 27N$$

$$FRAME_{TIME}[15:0] \geq 848 + 12N$$

Where:

T_{FRAME} = Total time of the message from ms

N = The number of data nibbles in message, 1-6

$FRCV$ = FCY x Prescaler

T_{CLK} = FCY/Prescaler