

# IR HOMEWOK

1. The frequency of the IR signal is :  
 $1/40,000(\text{Hz}) = 0.000025 \text{ second} = 25 \text{ us}$

2. Frame one:           Start + Device0 + command13  
                           Start + 0b0       + 0b1101

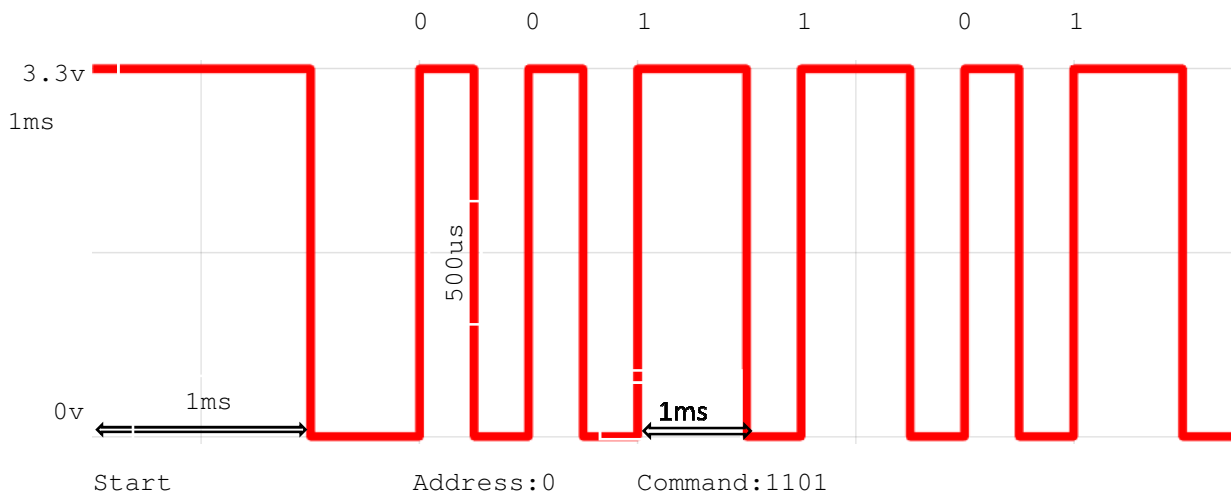
Frame two:           Start + Device1 + Command14  
                           Start + 0b01       + 0b1110

Frame three:          Start + Device3 + Command8  
                           Start + 0b11       + 0b1000

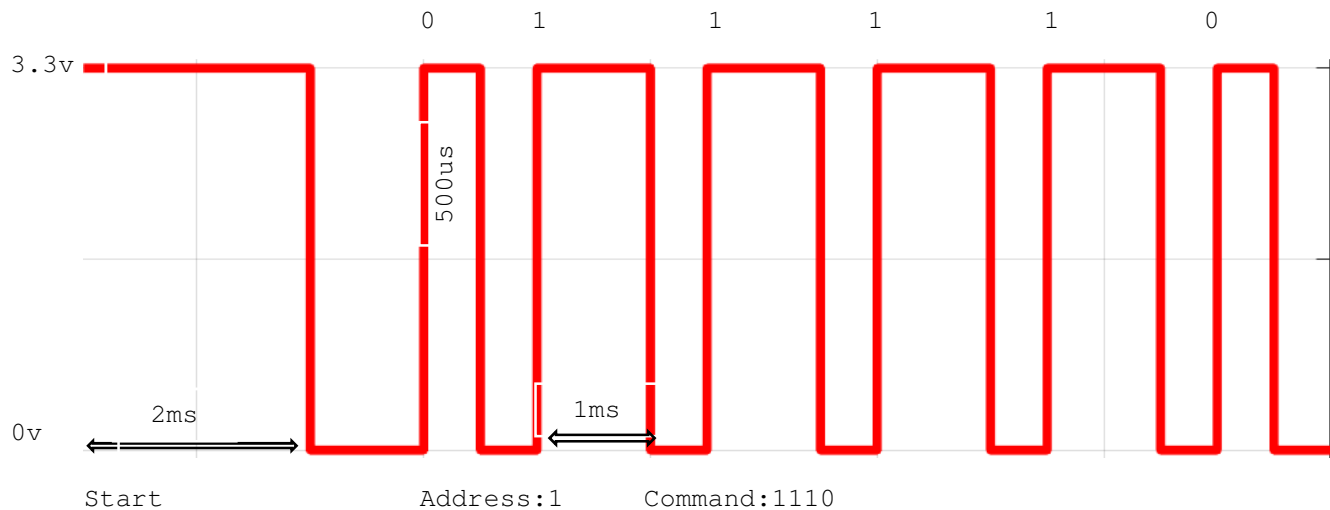
3. Data Frame:

- Frame one: Start + 0b0 + 0b1101

500us



- Frame two: Start + 0b01 + 0b1110



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