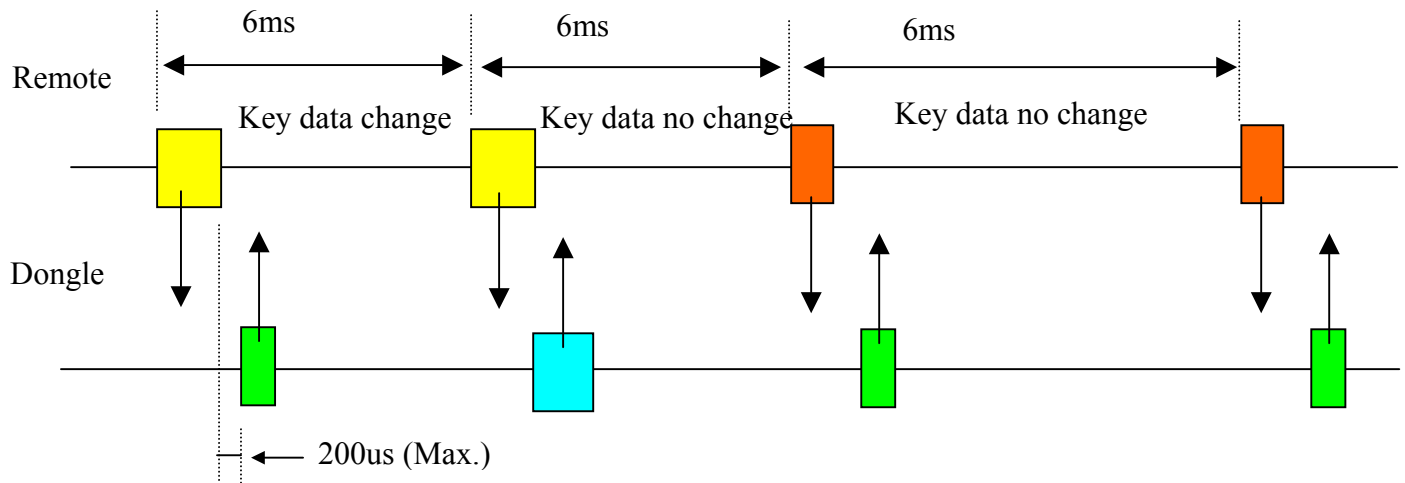


## Nordic Wireless Xbox Game-Pad Data Transfer Description :

2004/09/24

### Normal Transfer:



**Yellow: Key Data.**

1byte Preamble+5 bytes Address+18 bytes Payload+1 bytes CRC: 250us

**Orange: Connect Data.**

1byte Preamble+5 bytes Address+3bytes Payload+1 bytes CRC: 156us

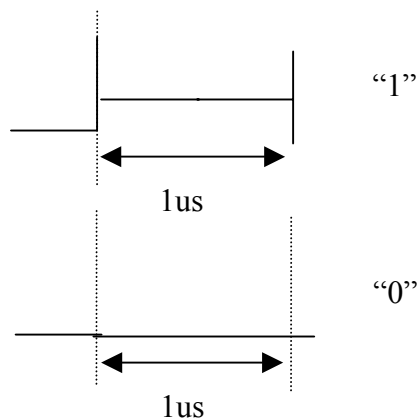
**Green: ACK signal.**

1byte Preamble+5 bytes Address+3bytes Payload+1 bytes CRC: 158us

**Blue: Motor Data.**

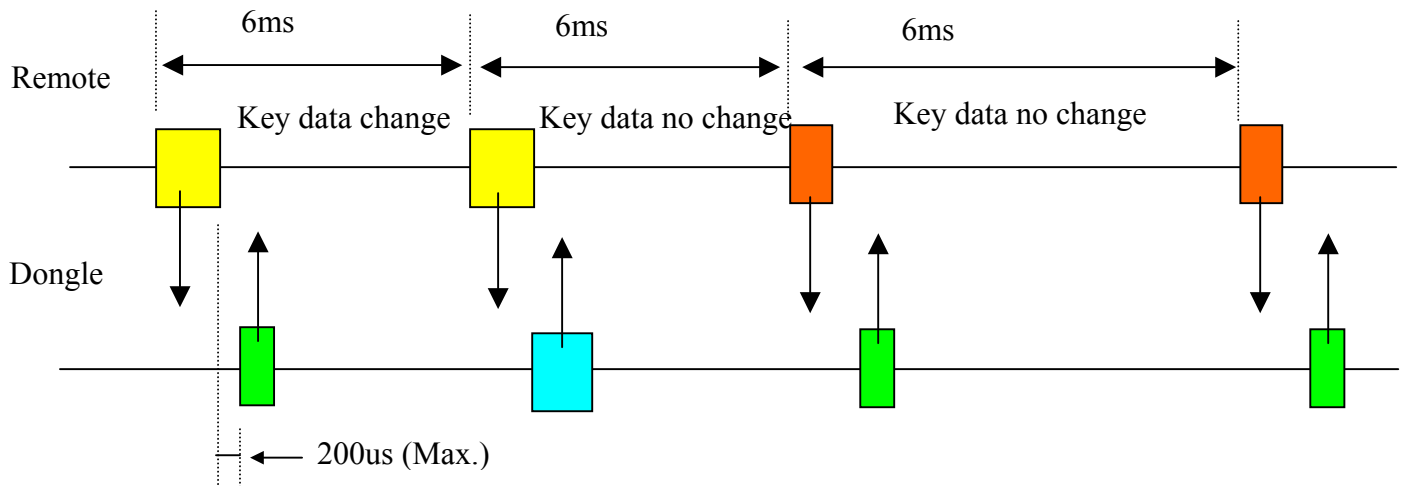
1byte Preamble+5 bytes Address+6bytes Payload+1 bytes CRC: 192us

### Bit format: RZ code.



## Calculation of average factor

### **Normal Transfer:**



### **For remote:**

Yellow: Key Data.

1byte Preamble+5 bytes Adress+18 bytes Payload+1 bytes CRC: 250us

Average Factor =  $0.25 / 6 = 0.041$  or  $-27.7$  dB

As the calculated value exceeds 20 dB, average factor of 20 dB is used.