# RF125-TX transmission protocol

Transmitter: Carrier (continuous high level 2.688-4.96ms) + separation bit (low level 0.5ms) + preamble (first high level 0.5ms then low level 0.5ms, loop 5 times) + pattern (0x9669)+ Separation bit (low level 0.5ms) + data packet (H_id (the highest bit is 0 means no data, the highest bit 1 means there is data behind) (1byte)） + data length (1byte) + data (n byte) + checksum (data Add) (1byte)) + separation bit (low level 0.5ms)
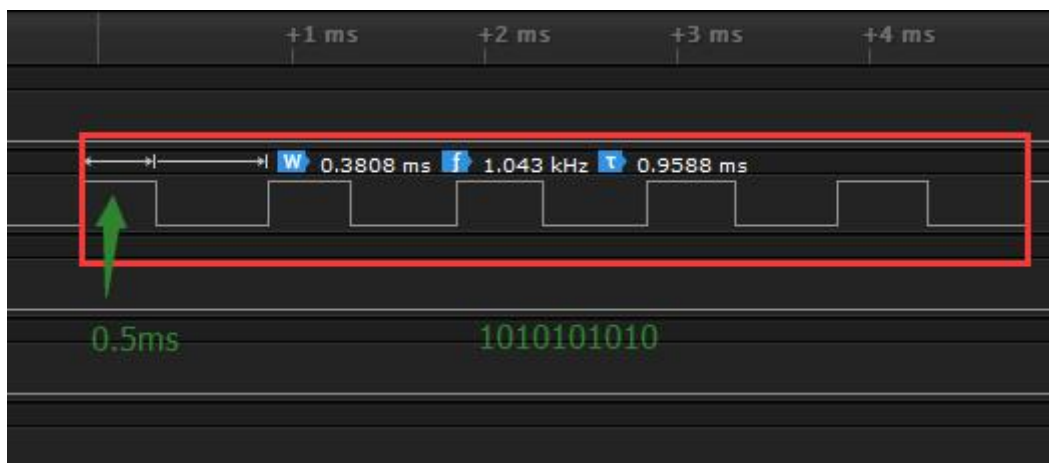
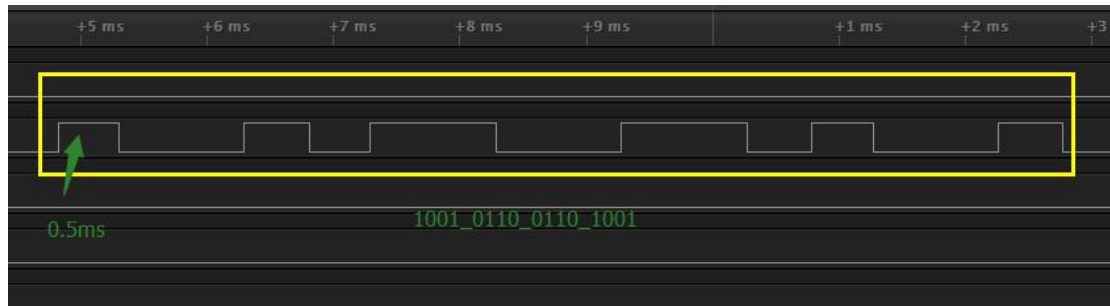1. 1. Carrier: continuous high level 2.688-4.96ms
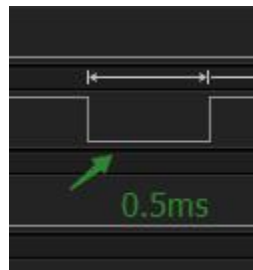

2. separation bit: low level 0.5ms
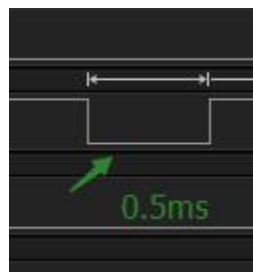
3. preamble :first high level 0.5ms then low level 0.5ms, loop 5 times

4. pattern：0x9669=0B1001_0110_0110_1001

5. separation bit: low level 0.5ms

6. Data packet: The data packet follows the standard Manchester encoding. 10 represents 1,01 represents 0. H_id (the highest bit is 0 means no data, the highest bit 1 means there is data after 1byte) + data length (1byte) + data (n byte) + checksum (data addition) (1byte)

H_id ：0x82, H occupies 1bit, id occupies 7bit. If H is 1, it proves that there is data after it, if H is 0, there is no data after it. Id=0x02.

data length: 0x05，The range is 0x00-0x2D.

data : 0x01 0x02 0x03 0x04 0x05,The number of data is related to the data length.

Checksum：0x0F = 0x01+0x02+0x03+0x04+0x05.Checksum is the sum of the data.

7. separation bit: low level 0.5ms