A correct BLE stream

Advertising:

preamble: 10101010 (if the first bit of Access Address is 1)

preamble: 01010101 (if the first bit of Access Address is 0)

LSB

Access Address: 0x8E89BED6 (for advertising it's a fixed pattern)

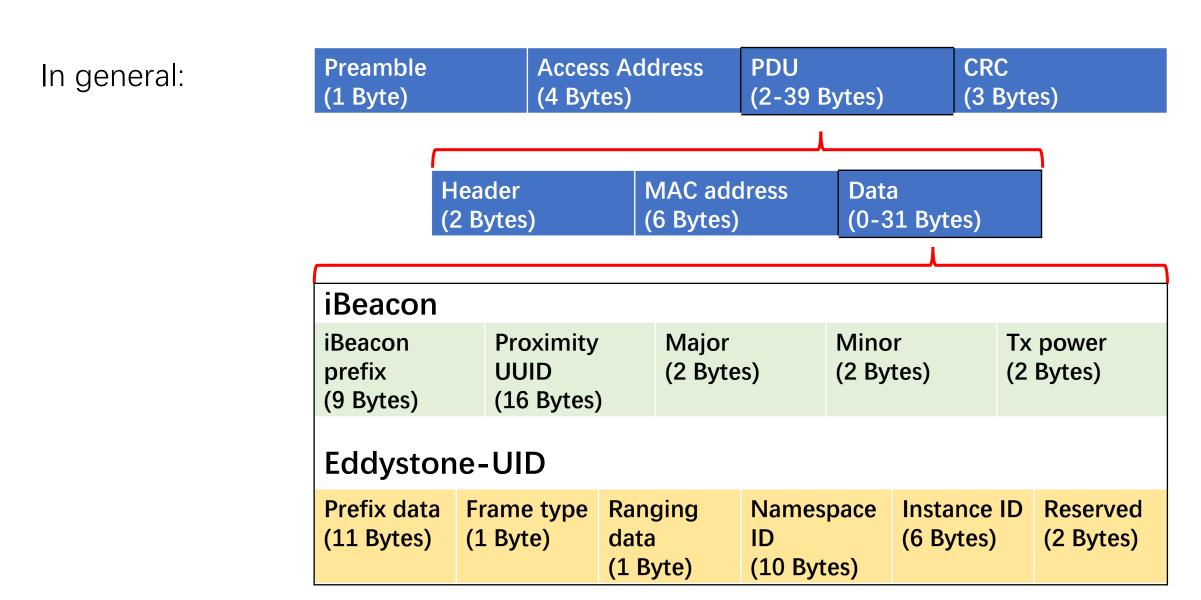
→1000 1110 1000 1001 1011 1110 1101 0110

BLE Advertising packet format | BLE Data packet format (rfwireless-world.com)

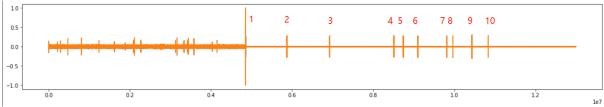
So we need to find the sequence of **preamble** and **access address** after finished demodulation, to judge if it's a BLE packet.

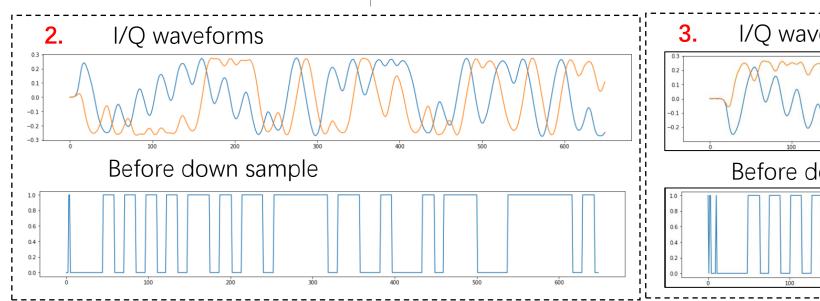
In theory, that is: 0101 0101 1000 1110 1000 1001 1011 1110 1101 0110

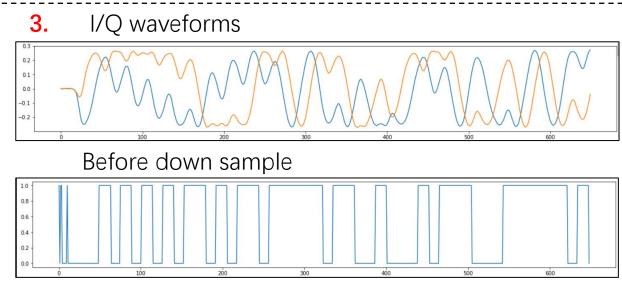
Packet formats of ibeacon and Eddystone-UID in advertising channel

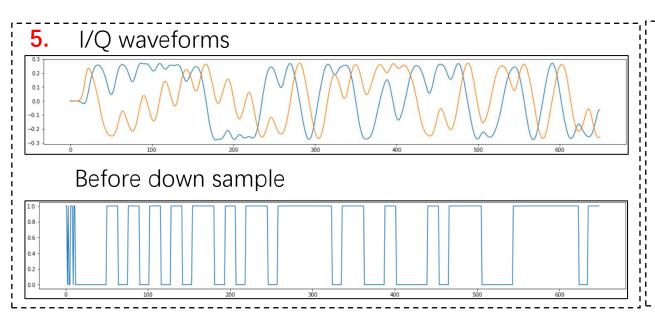


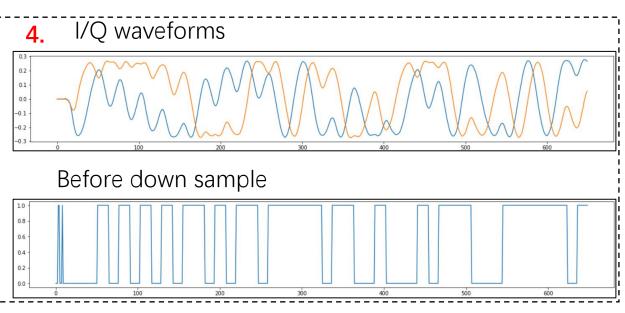
Eddystone-UID





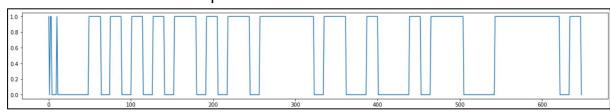


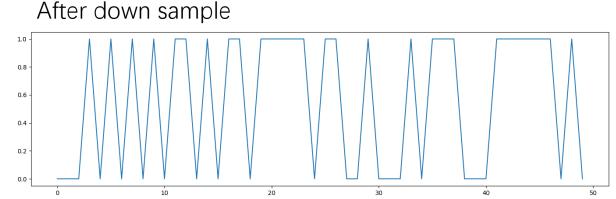




Eddystone-UID

Before down sample





After down sample: 00 01010101 0110 1011 0111 1101 1001 0001 0111 0001 1111 1010

	Preamble	Access Address	
00	01010101	0110 1011 0111 1101 1001 0001 0111 0001	1111 1010
	0x55	0x6B7D9171	

